

ISS MEF State and Trading Partners ICD

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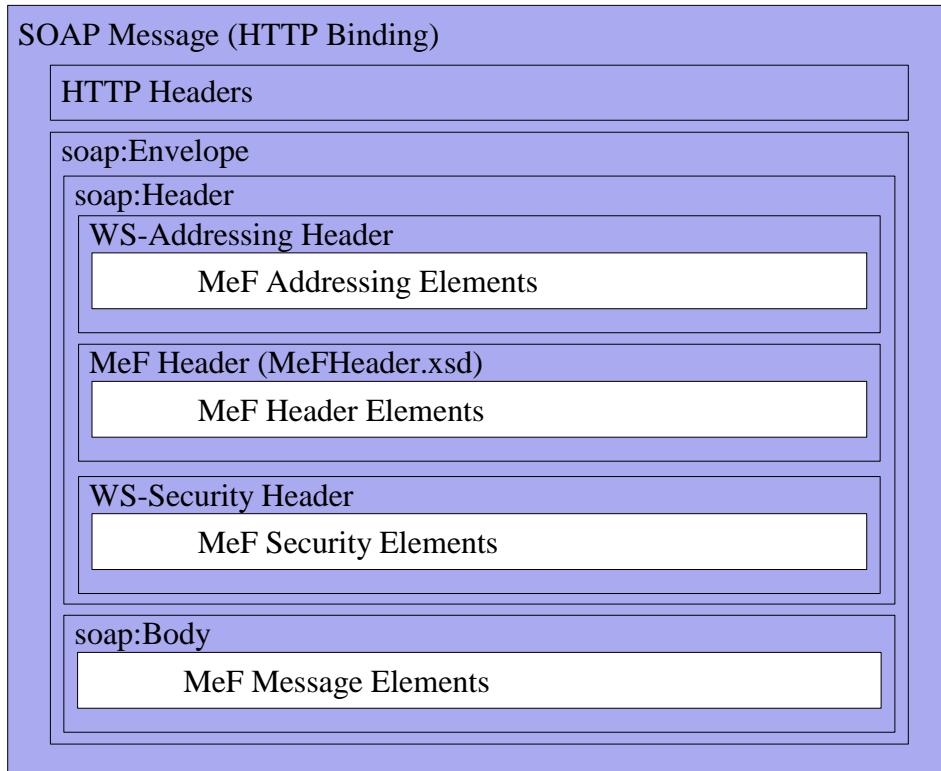
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Section 1. Security Interaction with Third Parties and States

1.1 Basic Message Structure

1.1.1 Basic Message Structure for HTTP Binding

This section describes the logical structure of basic messages with a SOAP Header and SOAP Body blocks within a SOAP message Envelope. The SOAP header contains the WS-Addressing, WS-Security and MeFHeader elements. The SOAP Body contains the MeF Message elements and attachment information (if any).



MeF Basic SOAP Message for HTTP Binding

1.1.2 SOAP Header

The SOAP Header specification is to be provided by the state or trading partner application.

1.1.2.1 WS-Security and SAML

The WS-Security profile of SAML is based on a single interaction between a sender and a receiver.

- The sender (a Web Service consumer) obtains a SAML assertion.
- The sender adds the assertion to a SOAP message using WS-Security headers

- The sender sends the SOAP message to the receiver (a Web Service provider)
- The receiver processes the assertion present in the SOAP message

SAML assertions and references to assertion identifiers are contained in the <wsse:Security> element, which in turn is included in the <SOAP-ENV:Header> element.

1.1.2.2 SAML Component Behavior

The Security token processing rules shall be implemented in the following manner:

- 1– If no SAML assertions exist, the security token will be extracted from the HTTP session cookie
- 2 – If a SAML assertion exists, the security token will be extracted from the XML WS Security Elements
- 3 – If an application is migrating from transport (session cookie) to message security (WS-Security SAML assertions) and is passing both an HTTP session cookie and a SAML assertion, MeF shall use the SAML assertion security token for request authentication/validation

1.1.2.3 Password and Expiration Rules for Application System ID

The existing RUP password rules that are used for Registered User Portal apply.

The initial password and the security token are issued by the IRS.

1.1.2.4 Application System ID and password

The Application System ID is the registered system application ID that was assigned to a Third-Party system or State during the enrollment process. The initial password is also assigned during the enrollment process but must be changed by the Application System the first time the Application System logs in to request MeF services. The Application System ID (username) and password are passed in WS-Security tags within the SOAP header. The WS-Security elements are presented below. Please note that the MeF service requests must use only the Username and Password elements of the WS-Security UsernameToken. No other elements are allowed. Using any other element of the WS-Security UsernameToken will result in an error being returned to the client. Also note that every request must provide at least the Username element of the WS-Security UsernameToken to enable validation of the incoming SAML assertion, if any.

<!-- WS Security Elements -->

```

<wsse:Security wsse:mustUnderstand="1"
  xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <wsse:UsernameToken wsu:Id="SecurityToken-0">
    <wsse:Username>username</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-
      token-profile-1.0#PasswordText">password</wsse:Password>
    <wsse:Nonce>mxSqK8/E3Mk1nNdXnGcG3w==</wsse:Nonce>
    <wsu:Created>2005-07-21T12:32:35Z</wsu:Created>
  </wsse:UsernameToken>
</wsse:Security>

```

The following example shows a soap request with the security information populated with the username and password from a MIME Client.

```
<wsse:Security
  xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <wsse:UsernameToken>
    <wsse:Username>app-id-username</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText"> app-id-password</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
```

1.1.2.5 SAML Assertion

SAML assertions exchange security information across the Third party or State application and the MeF A2A services. The MeF Login service authenticates a client request and sends back a SAML-based SOAP assertion, which affirms the relying party with the security information requested to be used for the subsequent MeF A2A service requests. A sample SAML assertion is presented below. Every incoming request with a SAML assertion must provide the Username element in the WS-Security UsernameToken to enable validation of the SAML assertion.

```
<!-- WS Security Elements SAML Assertion -->
<wsse:Security
  xmlns:wsse="http://docs.oasis- open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
  <saml:Assertion MajorVersion="1"
    IssueInstant="2005-10-02T16:05:08.319Z"
    Issuer="http://www.forumsys.com/sentry"
    AssertionID="id-ed7cc366ecfa256b4fa29b51c047e28381fff999"
    MinorVersion="1" xmlns:saml="urn:oasis:names:tc:SAML:1.0:assertion">
    <saml:Conditions NotOnOrAfter="2005-10-02T16:20:08.319Z"
      NotBefore="2005-10-02T16:05:08.319Z">
      <saml:DoNotCacheCondition/>
    </saml:Conditions>
    <saml:AuthenticationStatement AuthenticationInstant="2005-10-02T16:05:08.319Z"
      AuthenticationMethod="urn:oasis:names:tc:SAML:1.0:am:password">
      <saml:Subject>
        <saml:Nameldentifier Format="urn:oasis:names:tc:SAML:1.1:nameid-
          format:X509SubjectName">UID=xxxxxx,OU=xxxxxx,
          OU=External,OU=Internal Revenue Service,
          OU=Department of the Treasury,
          O=U.S. Government,C=US</saml:Nameldentifier>
        <saml:SubjectConfirmation>
          <saml:ConfirmationMethod>urn:oasis:names:tc:SAML:1.0:cm:sender-
            vouches</saml:ConfirmationMethod>
        </saml:SubjectConfirmation>
      </saml:Subject>
      <saml:SubjectLocality IPAddress="xxxxxx"/>
    </saml:AuthenticationStatement>
    <saml:AttributeStatement>
      <saml:Subject>
        <saml:Nameldentifier Format="urn:oasis:names:tc:SAML:1.1:nameid-
          format:X509SubjectName">
          UID=xxxxxx,OU=xxxxxx,OU=External,
```

```

OU=Internal Revenue Service,OU=Department of the Treasury,
O=U.S. Government,C=US
</saml:NameIdentifier>
<saml:SubjectConfirmation>
  <saml:ConfirmationMethod>urn:oasis:names:tc:SAML:1.0:cm:sender-
    vouches</saml:ConfirmationMethod>
</saml:SubjectConfirmation>
</saml:Subject>
<saml:Attribute AttributeNamespace="http://www.forumsys.com/sentry"
  AttributeName="SMSESSION">
  <saml:AttributeValue>
    yI4LdIAmg9lga0SPXeo9BNaEB5xuBsG/c1UF2p29uaUGgy1zGj3Yx6aCNCBwb3s+CQ45o2Mlc8gDGJ
    MKzBHcnjvjPq3tXK8fsRllwbwsoi2u/aP3aHvT+nEv8+GnJqDnQvesgXgzOQvuKMtiZW0rSfYglobmZhu
    0z8QA3Z+pM5B3dcCvyNsOQR8bjwpyhp2O8DpfzkYbM14vFubTKgxiOkG56b2gynhBKtk/TlcYx/BfoZ6U
    bx5Mo+qzMakIzesUJ+KTiAxgJRIjNlqVj+mHjd083+.....
  </saml:AttributeValue>
  </saml:Attribute>
</saml:AttributeStatement>
</saml:Assertion>
</wsse:Security>

```

1.1.2.6 WS-Addressing

Web Services Addressing (WS-Addressing) provides transport-neutral mechanisms to address Web services and messages. Specifically, this specification defines XML [XML 1.0, XML Namespaces] elements to identify Web service endpoints and to secure end-to-end endpoint identification in messages. Sample WS-Addressing elements are presented below. Please note that none of the MeF services use any of the WS-Addressing elements. The MeFHeader elements contain the required WS-Addressing-like information. Use of WS-Addressing elements is allowed, but they will be ignored by the MeF services.

<!-- WS Addressing Elements -->

```

xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing ">
<e:Header>
<wsa:MessageID>uuid:1136bbc2-ee59-11d9-b767-1136bbc1b767</wsa:MessageID>
<wsa:To>http://www.irs.gov/a2a/mef/InitialLogin</wsa:To>
<wsa:Action>http://www.irs.gov/a2a/mef/InitialLogin</wsa:Action>
<wsa:From>http://www.mycompany.com/myapplication/InitialLogin</wsa:From>

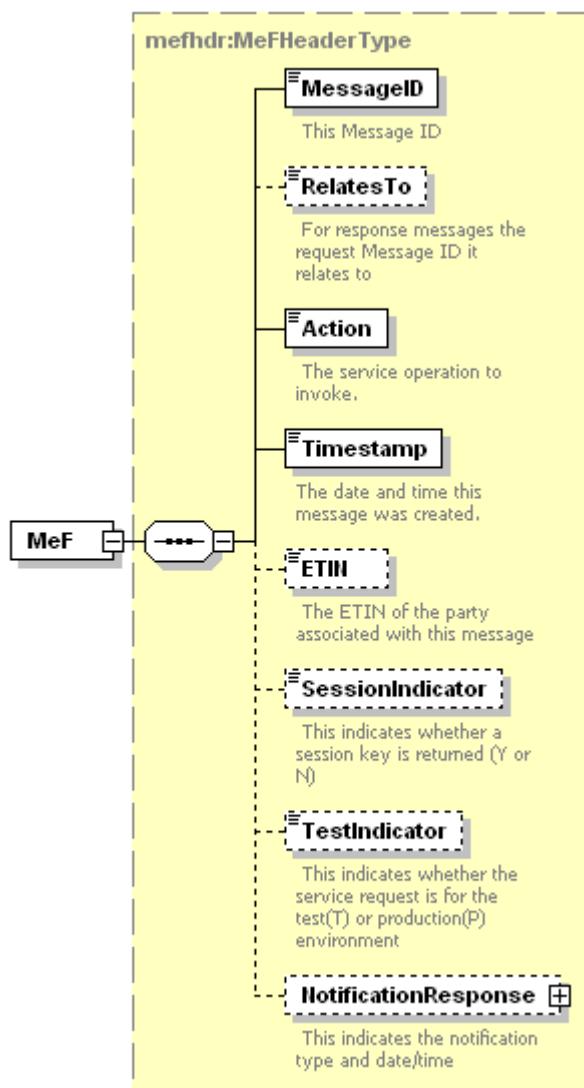
```

1.2 MeFHeader Elements

This section describes the elements in the MeFHeader message. Every SOAP message request and response for a web service from and to a State and Third-Party trading partner will contain a MeFHeader message in the SOAP message header.

1.2.1.1 element MeF

diagram



| | |
|------------|---|
| namespace | http://www.irs.gov/a2a/mef/MeFHeader.xsd |
| type | mefhdr:MeFHeaderType |
| properties | content complex |
| children | MessageID RelatesTo Action Timestamp ETIN SessionIndicator TestIndicator NotificationResponse |
| source | <code><xss:element name="MeF" type="mefhdr:MeFHeaderType"/></code> |

1.2.1.1.2 element MeFHeaderType/MessageID

The MessageID element is mandatory. All request and response messages must have a globally unique MessageID provided by the message source.



Message ID

There are three types of messages to consider: request messages, response messages, and error messages. The message ID formats are specified as follows.

Request Message ID

To ensure the global uniqueness of a message ID, the following format is adopted for the request messages sent to the MeF system:

ETIN + ccyyddd + xxxxxxxx

For example:

Request message ID: 001302006073A2345678

The first five digits (00130) contain the ETIN, the next four digits (2006) contain the year, the next three digits (073) contain the Julian date, and the last eight characters (A2345678) contain an alphanumeric sequence to uniquely identify messages sent within a day with the given ETIN. The total number of characters of the request message ID is twenty.

Response Message ID

For response messages sent from the MeF system, the following format is adopted for the message ID:

Request Message ID + "R"

For example:

Response message ID: 001302006073A2345678R

The total number of characters of the response message ID is twenty-one.

Error Message ID

For error messages sent from the MeF system, the following format is adopted for the message ID:

Request Message ID + "E"

For example:

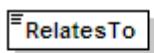
Response message ID: 001302006073A2345678E

The total number of characters of the error message ID is twenty-one.

1.2.1.1.3 element MeFHeaderType/RelatesTo

This element can be used to allow members in a Web Services engagement—either requesters or responders—to deliver a complex chain of messages between two, three, or more services by positively indicating that they are part of the same thread. The RelatesTo element is optional and is not applicable to the initial message of a thread. All other messages of a thread must contain the RelatesTo element.

diagram



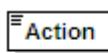
For response messages the request Message ID it relates to

| | |
|------------|--|
| type | xs:string |
| properties | isRef 0 content simple |
| annotation | documentation For response messages the request Message ID it relates to |
| source | <pre><xs:element name="RelatesTo" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation> For response messages the request Message ID it relates to </xs:documentation> </xs:annotation> </xs:element></pre> |

1.2.1.1.4 element MeFHeaderType/Action

The Action element is mandatory. The action element identifies the Web service endpoints to be used for end-to-end endpoint identification in messages. For all service requests, this element must match the service at the URL invoked. For example, if invoking the URL <https://www.irs.gov/a2a/mef/Login>, then the action element must contain the string “Login”.

diagram



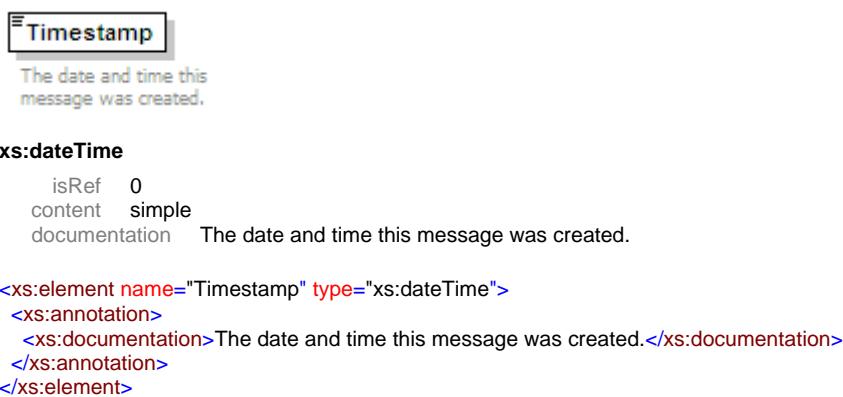
The service operation to invoke.

| | |
|------------|---|
| type | xs:string |
| properties | isRef 0 content simple |
| annotation | documentation The service operation to invoke. |
| source | <pre><xs:element name="Action" type="xs:string"> <xs:annotation> <xs:documentation> The service operation to invoke. </xs:documentation> </xs:annotation> </xs:element></pre> |

1.2.1.1.5 element MeFHeaderType/Timestamp

The Timestamp element is mandatory. The Timestamp element identifies the Web service date and time of message creation.

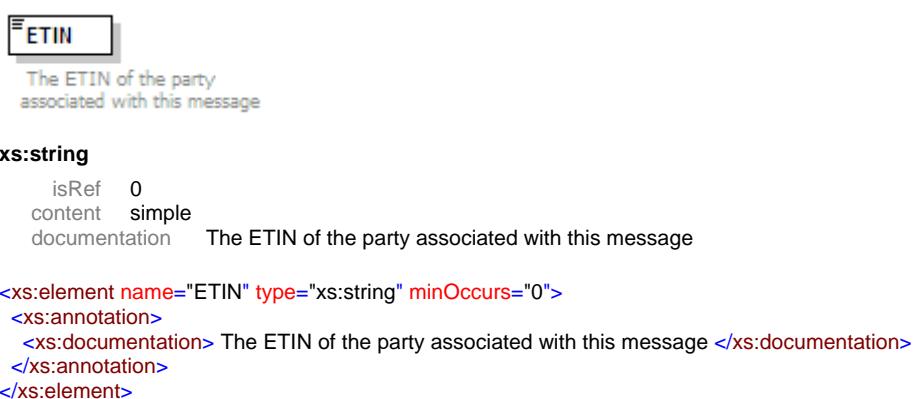
diagram



1.2.1.1.6 element MeFHeaderType/ETIN

The ETIN element identifies the electronic transmitter identification number of the transmitter who sends the request message. The ETIN element is optional. It is not applicable to the InitialLogin, Login, ChangePassword, or Logout services. However, it is required for all other service requests.

diagram



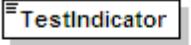
1.2.1.1.7 element MeFHeaderType/SessionIndicator

The SessionIndicator element indicates whether the service request should return an open session (SAML assertion) for the request or close the session at the end of the service (no SAML). The expected values are “Y” (to indicate that an open persistent session should be established) or “N” (to indicate that the session should be closed at the end of the service). The SessionIndicator element is optional. It is not applicable to the Logout service. If it is not provided and the authorization is successful, a SAML assertion will be returned in the service response.

| | |
|------------|---|
| diagram |  This indicates whether a session key is returned ("Y" or "N") |
| type | mefhdr:SessionIndicatorType |
| properties | isRef 0 content simple |
| annotation | documentation This indicates whether a session key is returned ("Y" or "N") |
| source | <pre><xs:element name="SessionIndicator" type="mefhdr:SessionIndicatorType" minOccurs="0"> <xs:annotation> <xs:documentation> This indicates whether a session key is returned ("Y" or "N") </xs:documentation> </xs:annotation> </xs:element> <xs:simpleType name="SessionIndicatorType"> <xs:restriction base="xs:string"> <xs:enumeration value="Y"/> <xs:enumeration value="N"/> </xs:restriction> </xs:simpleType></pre> |

1.2.1.1.8 element MeFHeaderType/TestIndicator

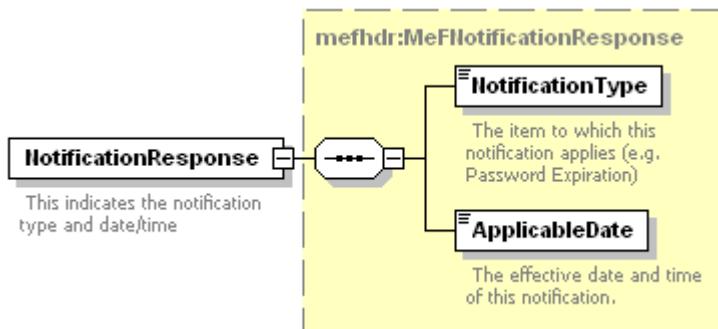
The TestIndicator element identifies if the request is a production request or an ATS (test) request. The expected values are "P" (to indicate that this is a production request) or "T" (to indicate that this is an ATS (test) request). The TestIndicator element is optional. It is not applicable to the InitialLogin, Login, ChangePassword, Logout, EtinRetrieval, EtinStatus, or GetStateParticipantsList service requests. However, it is required for all Third Part Transmitter and State service requests.

| | |
|------------|---|
| diagram |  This indicates whether the service request is for the test(T) or production(P) environment |
| type | mefhdr:TestIndicatorType |
| properties | isRef 0 content simple |
| annotation | documentation This indicates whether the service request is for the test(T) or production(P) environment |
| source | <pre><xs:element name="TestIndicator" type="mefhdr:TestIndicatorType" minOccurs="0"> <xs:annotation> <xs:documentation> This indicates whether the service request is for the test(T) or production(P) environment </xs:documentation> </xs:annotation> </xs:element> <xs:simpleType name="TestIndicatorType"> <xs:restriction base="xs:string"> <xs:enumeration value="T"/> <xs:enumeration value="P"/> </xs:restriction> </xs:simpleType></pre> |

1.2.1.1.9 element MeFHeaderType/NotificationResponse

The optional NotificationResponse element is used to communicate secondary information back to the Third party or State applications. It is intended for use on response messages only, not on input requests. This information is not necessarily directly related to the request. For example, it is used to notify the application that the password will expire on the date and time specified.

diagram



type [mefhdr:MeFNotificationResponse](#)

properties
isRef 0
content complex

children [NotificationType](#) [ApplicableDate](#)

annotation documentation This indicates the notification type and date/time

source

```
<xs:element name="NotificationResponse" type="mefhdr:MeFNotificationResponse" minOccurs="0">
<xs:annotation>
  <xs:documentation>This indicates the notification type and date/time</xs:documentation>
</xs:annotation>
</xs:element>
```

element MeFNotificationResponse/NotificationType

The NotificationType element is used to communicate secondary information back to the Third party or State applications (e.g. “Password Expiration”).

diagram



The item to which this notification applies (e.g., Password Expiration)

type [xs:string](#)

properties
isRef 0
content simple

annotation documentation The item to which this notification applies (e.g. Password Expiration)

source

```
<xs:element name="NotificationType" type="xs:string">
<xs:annotation>
  <xs:documentation>The item to which this notification applies (e.g. Password Expiration)</xs:documentation>
</xs:annotation>
</xs:element>
```

element MeFNotificationResponse/ApplicableDate

The ApplicableDate element is used to communicate the effective date and time of the notification back to the Third party or State applications.

diagram



The effective date and time of this notification.

| | |
|------------|---|
| type | xs:dateTime |
| properties | isRef 0 content simple |
| annotation | documentation The effective date and time of this notification. |
| source | <pre><xs:element name="ApplicableDate" type="xs:dateTime"> <xs:annotation> <xs:documentation>The effective date and time of this notification. </xs:documentation> </xs:annotation> </xs:element></pre> |

1.3 MeF Release 3.2 Services Summary

The MeF Release 3.2 services are divided into 5 classifications:

- **MSI Services**
 - InitialLogin, Login, Logout, ChangePassword, EtinRetrieval, EtinStatus, GetStateParticipantsList
- **State Services DIME**
 - GetNewSubmissions, GetSubmissions, GetSubmission, SendSubmissionReceipts, SendAcks, GetNewAckNotifications, GetAckNotifications, GetAckNotification
- **State Services MIME**
 - GetNewSubmissions, GetSubmissions, GetSubmission, SendSubmissionReceipts, SendAcks, GetNewAckNotifications, GetAckNotifications, GetAckNotification
- **Transmitter Services DIME**
 - SendSubmissions, GetNewAcks, GetAcks, GetAck, GetNewSubmissionsStatus, GetSubmissionsStatus, GetSubmissionStatus
- **Transmitter Services MIME**
 - SendSubmissions, GetNewAcks, GetAcks, GetAck, GetNewSubmissionsStatus, GetSubmissionsStatus, GetSubmissionStatus

The URL addresses for accessing the services from the client applications are in the table below.

| MSI Services |
|---|
| https://www.irs.gov/a2a/mef/ChangePassword |
| https://www.irs.gov/a2a/mef/EtinRetrieval |
| https://www.irs.gov/a2a/mef/EtinStatus |
| https://www.irs.gov/a2a/mef/GetStateParticipantsList |
| https://www.irs.gov/a2a/mef/InitialLogin |
| https://www.irs.gov/a2a/mef/Logout |
| https://www.irs.gov/a2a/mef/Login |
| State Services DIME |
| https://www.irs.gov/a2a/mef/dime/GetNewSubmissions |
| https://www.irs.gov/a2a/mef/dime/GetSubmissions |
| https://www.irs.gov/a2a/mef/dime/GetSubmission |
| https://www.irs.gov/a2a/mef/dime/SendSubmissionReceipts |
| https://www.irs.gov/a2a/mef/dime/SendAcks |
| https://www.irs.gov/a2a/mef/dime/GetNewAckNotifications |
| https://www.irs.gov/a2a/mef/dime/GetAckNotifications |
| https://www.irs.gov/a2a/mef/dime/GetAckNotification |
| State Services MIME |
| https://www.irs.gov/a2a/mef/mime/GetNewSubmissions |
| https://www.irs.gov/a2a/mef/mime/GetSubmissions |
| https://www.irs.gov/a2a/mef/mime/GetSubmission |
| https://www.irs.gov/a2a/mef/mime/SendSubmissionReceipts |
| https://www.irs.gov/a2a/mef/mime/SendAcks |
| https://www.irs.gov/a2a/mef/mime/GetNewAckNotifications |
| https://www.irs.gov/a2a/mef/mime/GetAckNotifications |
| https://www.irs.gov/a2a/mef/mime/GetAckNotification |

| Transmitter Services DIME |
|---|
| https://www.irs.gov/a2a/mef/dime/SendSubmissions |
| https://www.irs.gov/a2a/mef/dime/GetNewAcks |
| https://www.irs.gov/a2a/mef/dime/GetAcks |
| https://www.irs.gov/a2a/mef/dime/GetAck |
| https://www.irs.gov/a2a/mef/dime/GetNewSubmissionsStatus |
| https://www.irs.gov/a2a/mef/dime/GetSubmissionsStatus |
| https://www.irs.gov/a2a/mef/dime/GetSubmissionStatus |
| Transmitter Services MIME |
| https://www.irs.gov/a2a/mef/mime/SendSubmissions |
| https://www.irs.gov/a2a/mef/mime/GetNewAcks |
| https://www.irs.gov/a2a/mef/mime/GetAcks |
| https://www.irs.gov/a2a/mef/mime/GetAck |
| https://www.irs.gov/a2a/mef/mime/GetNewSubmissionsStatus |
| https://www.irs.gov/a2a/mef/mime/GetSubmissionsStatus |
| https://www.irs.gov/a2a/mef/mime/GetSubmissionStatus |

The following table lists of the interface messages for each service.

| Request & Response Messages |
|--|
| MSI Services Messages |
| ChangePasswordRequestMessage ChangePasswordResponseMessage EtinRetrievalRequestMessage EtinRetrievalResponseMessage EtinStatusRequestMessage EtinStatusResponseMessage GetStateParticipantsListRequestMessage GetStateParticipantsListResponseMessage InitialLoginRequestMessage InitialLoginResponseMessage LoginRequestMessage LoginResponseMessage LogoutRequestMessage LogoutResponseMessage MeFFaultMessage |
| State Services Messages |
| GetAckNotificationRequest GetAckNotificationResponse GetAckNotificationsRequest GetAckNotificationsResponse GetNewAckNotificationsRequest GetNewAckNotificationsResponse GetNewSubmissionsRequest GetNewSubmissionsResponse GetSubmissionRequest GetSubmissionResponse GetSubmissionsRequest GetSubmissionsResponse SendAcksRequest SendAcksResponse SendSubmissionReceiptsRequest SendSubmissionReceiptsResponse MeFException |

Transmitter Services Messages

GetAckRequest
GetAckResponse
GetAcksRequest
GetAcksResponse
GetNewAcksRequest
GetNewAcksResponse
GetNewSubmissionsStatusRequest
GetNewSubmissionsStatusResponse
GetSubmissionsStatusRequest
GetSubmissionsStatusResponse
GetSubmissionStatusRequest
SendSubmissionsRequest
SendSubmissionsResponse
MeFException

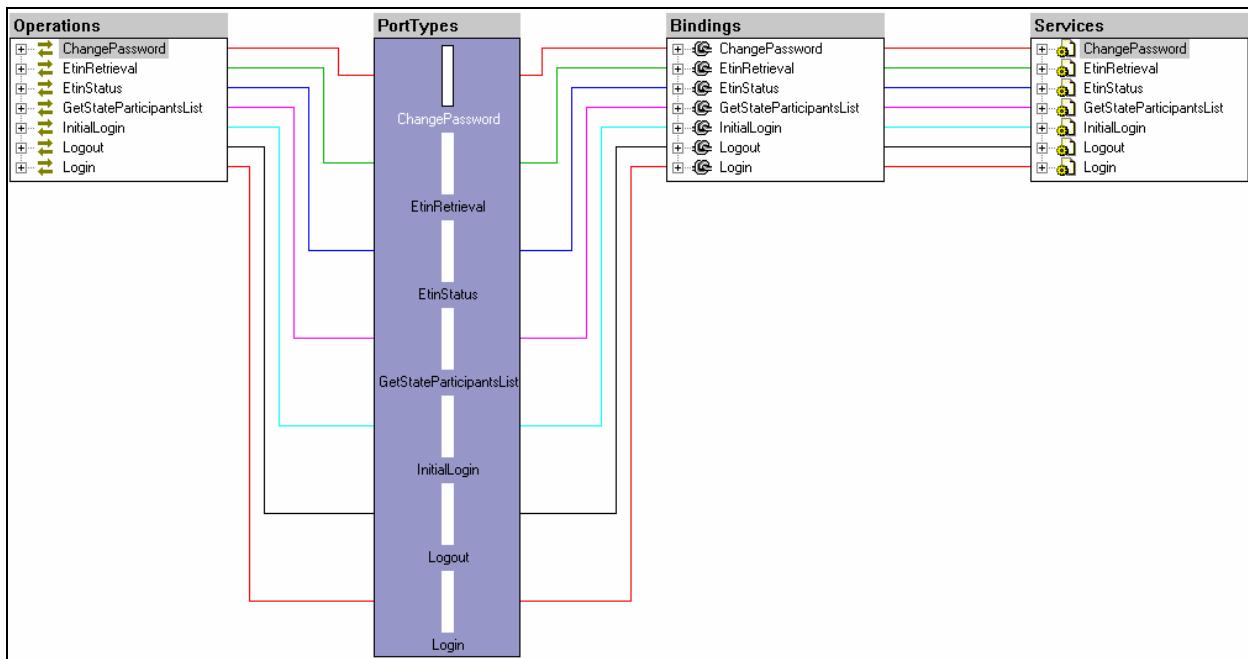
MeF Release 3.2 Service Messages Summary

1.3.1 Modernized System Infrastructure (MSI) Services

The following table contains the summary of the services, bindings, ports, and messages for all the services provided directly by the MSI.

| Services | Bindings | Port types | Messages |
|--|--|--|---|
| ChangePassword | ChangePassword | ChangePassword | ChangePasswordRequestMessage |
| EtinRetrieval | EtinRetrieval | EtinRetrieval | ChangePasswordResponseMessage |
| EtinStatus | EtinStatus | EtinStatus | EtinRetrievalRequestMessage |
| GetStateParticipantsList | GetStateParticipantsList | GetStateParticipantsList | EtinRetrievalResponseMessage |
| InitialLogin | InitialLogin | InitialLogin | EtinStatusRequestMessage |
| Login | Login | Login | EtinStatusResponseMessage |
| Logout | Logout | Logout | GetStateParticipantsListRequestMessage |
| | | | GetStateParticipantsListResponseMessage |
| | | | InitialLoginRequestMessage |
| | | | InitialLoginResponseMessage |
| | | | LoginRequestMessage |
| | | | LoginResponseMessage |
| | | | LogoutRequestMessage |
| | | | LogoutResponseMessage |
| | | | MeFFaultMessage |

The following figure illustrates the services, bindings, ports, and messages for all the services provided directly by the MSI.

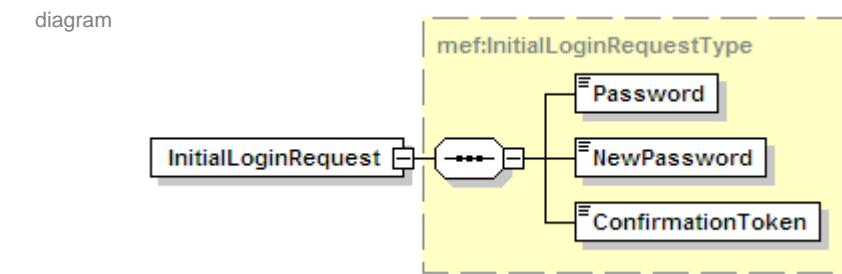


1.3.1.1 Initial Login

Both States and Third-Party trading partners will be required to perform a first-time login to initialize each originating system ID. This will be accomplished using an infrastructure Web Service designed to perform this task. During the A2A enrollment process the initial password and confirmation token were assigned to the system ID by the IRS. Both the initial password and confirmation token are case sensitive text strings. The initial password was provided to the customer via a telephone conversation with the customer's authorized representative. The confirmation token was provided to the customer via an acceptance letter mailed (or faxed) to customer's authorized representative. The requesting system will provide the system ID and initial password obtained during the A2A enrollment process in the wsse:Security portion of the SOAP header. The requesting system will also provide the initial password, confirmation token, and new password in the Initial Login Request message within the SOAP body. After the authentication is completed, the password change will be automatically performed during the service request. If the authentication and the password change are completed successfully, future login requests must use the new password supplied in the Initial Login Request message. If successful, an InitialLoginResponse message is returned in the SOAP body of the response message. If successful and the SessionIndicator is set to "Y" in the MeFHeader message within the SOAP header, a session token is created and returned in the SOAP header of the response message. If the authentication or the password change fails, a SOAP error message is returned to the requesting system.

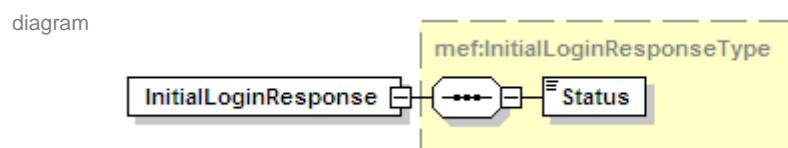
type [tns:InitialLogin](#)
 extensibility
 operations
 InitialLogin
 extensi
bility
 input **<soap:body parts="InitialLogin" use="literal"/><soap:header message="tns:InitialLoginRequestMessage" part="MeFHeader" use="literal"/>**
 output **<soap:body parts="InitialLoginResponse" use="literal"/><soap:header message="tns:InitialLoginResponseMessage" part="MeFHeader" use="literal"/>**
 used by Service [InitialLogin](#) in Port [InitialLogin](#)
 source
 <wsdl:binding name="InitialLogin" type="tns:InitialLogin">
 <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
 <wsdl:operation name="InitialLogin">
 <soap:operation soapAction="http://www.irs.gov/a2a/mef/InitialLogin"/>
 <wsdl:input>
 <soap:body parts="InitialLogin" use="literal"/>
 <soap:header message="tns:InitialLoginRequestMessage" part="MeFHeader" use="literal"/>
 </wsdl:input>
 <wsdl:output>
 <soap:body parts="InitialLoginResponse" use="literal"/>
 <soap:header message="tns:InitialLoginResponseMessage" part="MeFHeader" use="literal"/>
 </wsdl:output>
 <wsdl:fault name="fault">
 <soap:fault name="fault" use="literal"/>
 </wsdl:fault>
 </wsdl:operation>
</wsdl:binding>

1.3.1.1.1 element InitialLoginRequest



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
 type [mef:InitialLoginRequestType](#)
 properties content complex
 children [Password](#) [NewPassword](#) [ConfirmationToken](#)
 source
 <x:element name="InitialLoginRequest" type="mef:InitialLoginRequestType"/>

1.3.1.1.2 element InitialLoginResponse

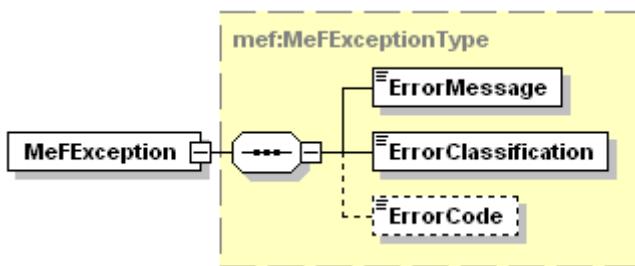


namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:InitialLoginResponseType](#)
 properties content complex
 children [Status](#)
 source <xs:element name="InitialLoginResponse" type="mef:InitialLoginResponseType"/>

1.3.1.1.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
 type [mef:MeFExceptionType](#)
 properties content complex
 children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)
 source <xs:element name="MeFException" type="mef:MeFExceptionType"/>

1.3.1.2 Login

Both States and the Third Party partner will need to login to the system in order to invoke any other service requests. This will be accomplished using the infrastructure login Web Service with the system ID and password in the wsse:Security portion of the SOAP header and an empty LoginRequest message tag in the SOAP body. If the authentication is successful, a LoginResponse message is returned in the SOAP body of the response message. If the authentication is successfully completed and the SessionIndicator is set to “Y” in the MeFHeader message within the SOAP header, a session token is created and returned in the SOAP header of the response message. If authentication fails, a SOAP error message will be returned to the requesting system.

type [tns:Login](#)
 extensibility <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
 operations
 Login
 extensi
 bility <soap:operation soapAction="http://www.irs.gov/a2a/mef/Login"/>
 input <soap:body parts="Login" use="literal"/><soap:header message="tns:LoginRequestMessage" part="MeFHeader" use="literal"/>
 output <soap:body parts="LoginResponse" use="literal"/><soap:header message="tns:LoginResponseMessage" part="MeFHeader" use="literal"/>
 used by Service [Login](#) in Port [Login](#)
 source <wsdl:binding name="Login" type="tns:Login">
<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
<wsdl:operation name="Login">
<soap:operation soapAction="http://www.irs.gov/a2a/mef/Login"/>
<wsdl:input>
<soap:body parts="Login" use="literal"/>

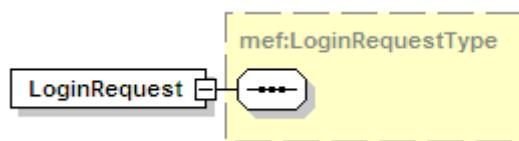
```

<soap:header message="tns>LoginRequestMessage" part="MeFHeader" use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body parts="LoginResponse" use="literal"/>
  <soap:header message="tns>LoginResponseMessage" part="MeFHeader" use="literal"/>
</wsdl:output>
<wsdl:fault name="fault">
  <soap:fault name="fault" use="literal"/>
</wsdl:fault>
</wsdl:operation>
</wsdl:binding>

```

1.3.1.2.1 element LoginRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

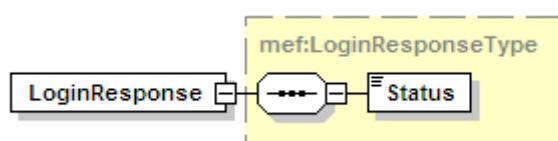
type [mef:LoginRequestType](#)

properties content complex

source <xss:element name="LoginRequest" type="mef:LoginRequestType"/>

1.3.1.2.2 element LoginResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:LoginResponseType](#)

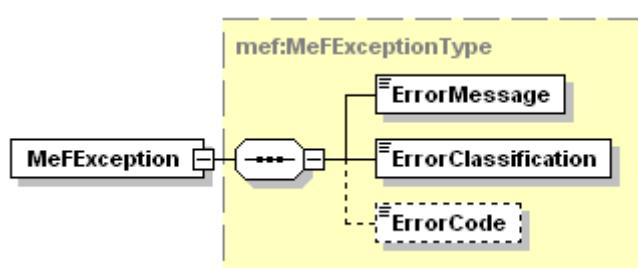
properties content complex

children [Status](#)

source <xss:element name="LoginResponse" type="mef:LoginResponseType"/>

1.3.1.2.3 element MeFException

diagram



| | |
|------------|--|
| namespace | http://www.irs.gov/a2a/mef/MeFMSIServices.xsd |
| type | mef:MeFExceptionType |
| properties | content complex |
| children | ErrorMessage ErrorClassification ErrorCode |
| source | <xs:element name="MeFException" type="mef:MeFExceptionType"/> |

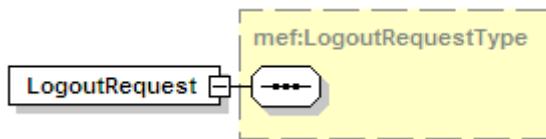
1.3.1.3 Logout

Both States and Third-Party trading partners will have authorization to programmatically request a logout Web Service to end a persistent session using an infrastructure Web Service designed to perform this task. The requestor will be required to provide the system ID in the wsse:Security portion of the SOAP header and the session key in the wsse:Security portion of the SOAP header (or the HTTP header based on their profile) and an empty LogoutRequest message tag in the SOAP body. If the requesting session is successfully terminated, a successful LogoutResponse message will be returned to the requestor in the SOAP body indicating that the session was terminated. Otherwise, a SOAP error message will be returned to the requesting system.

| | |
|---------------|--|
| type | tns:Logout |
| extensibility | <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> |
| operations | Logout extensi bility <soap:operation soapAction="http://www.irs.gov/a2a/mef/Logout"/> input <soap:body parts="Logout" use="literal"/><soap:header message="tns:LogoutRequestMessage" part="MeFHeader" use="literal"/> output <soap:body parts="LogoutResponse" use="literal"/><soap:header message="tns:LogoutResponseMessage" part="MeFHeader" use="literal"/> |
| used by | Service Logout in Port Logout |
| source | <wsdl:binding name="Logout" type="tns:Logout"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="Logout"> <soap:operation soapAction="http://www.irs.gov/a2a/mef/Logout"/> <wsdl:input> <soap:body parts="Logout" use="literal"/> <soap:header message="tns:LogoutRequestMessage" part="MeFHeader" use="literal"/> </wsdl:input> <wsdl:output> <soap:body parts="LogoutResponse" use="literal"/> <soap:header message="tns:LogoutResponseMessage" part="MeFHeader" use="literal"/> </wsdl:output> <wsdl:fault name="fault"> <soap:fault name="fault" use="literal"/> </wsdl:fault> </wsdl:operation> </wsdl:binding> |

1.3.1.3.1 element LogoutRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

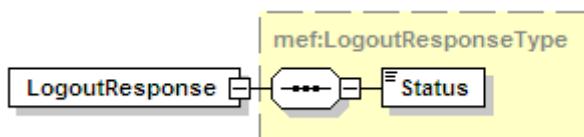
type [mef:LogoutRequestType](#)

properties content complex

source <xs:element name="LogoutRequest" type="mef:LogoutRequestType"/>

1.3.1.3.2 element LogoutResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:LogoutResponseType](#)

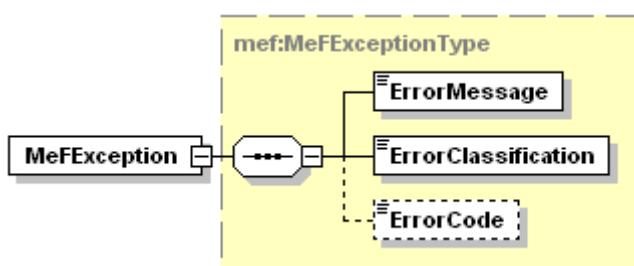
properties content complex

children [Status](#)

source <xs:element name="LogoutResponse" type="mef:LogoutResponseType"/>

1.3.1.3.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

source <xs:element name="MeFException" type="mef:MeFExceptionType"/>

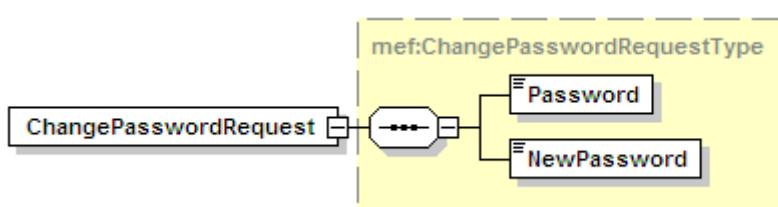
1.3.1.4 ChangePassword

Both States and Third-Party trading partners will have authorization to programmatically request a Web Service to change the password for an originating Application System ID. The requesting system will provide the application system ID in the wsse:Security portion of the SOAP header. The requesting system must also already be logged in, have a valid session, and provide the session key in the wsse:Security portion of the SOAP header (or the HTTP header based on their profile). The requesting system will also provide a ChangePasswordRequest message (containing the current password and new password) in the SOAP body. If the password is successfully changed, a successful ChangePasswordResponse message will be returned to the requestor in the SOAP body indicating that the password was changed. Otherwise, a SOAP error message will be returned to the requesting system.

| | |
|---------------|--|
| type | <u>tns:ChangePassword</u> |
| extensibility | <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> |
| operations | ChangePassword extensi bility input <soap:body parts="ChangePassword" use="literal"/><soap:header message="tns:ChangePasswordRequestMessage" part="MeFHeader" use="literal"/> output <soap:body parts="ChangePasswordResponse" use="literal"/><soap:header message="tns:ChangePasswordResponseMessage" part="MeFHeader" use="literal"/> |
| used by | Service <u>ChangePassword</u> in Port <u>ChangePassword</u> |
| source | <wsdl:binding name="ChangePassword" type="tns:ChangePassword"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="ChangePassword"> <soap:operation soapAction="http://www.irs.gov/a2a/mef/ChangePassword"/> <wsdl:input> <soap:body parts="ChangePassword" use="literal"/> <soap:header message="tns:ChangePasswordRequestMessage" part="MeFHeader" use="literal"/> </wsdl:input> <wsdl:output> <soap:body parts="ChangePasswordResponse" use="literal"/> <soap:header message="tns:ChangePasswordResponseMessage" part="MeFHeader" use="literal"/> </wsdl:output> <wsdl:fault name="fault"> <soap:fault name="fault" use="literal"/> </wsdl:fault> </wsdl:operation> </wsdl:binding> |

1.3.1.4.1 element ChangePasswordRequest

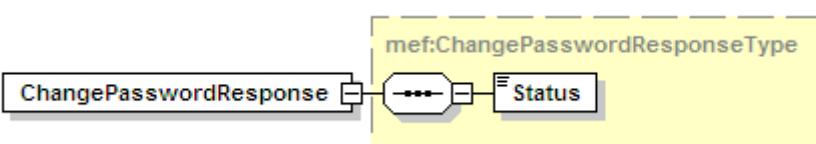
diagram



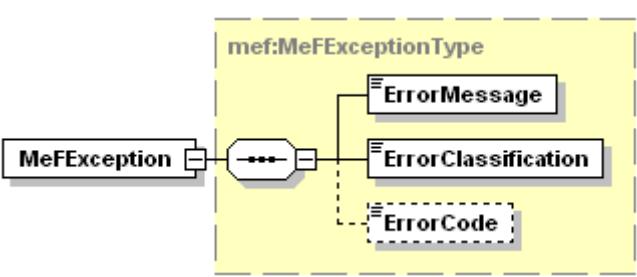
namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:ChangePasswordRequestType](#)
 properties content complex
 children [Password](#) [NewPassword](#)
 source <xs:element name="ChangePasswordRequest" type="mef:ChangePasswordRequestType"/>

1.3.1.4.2 element ChangePasswordResponse

diagram 
 namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
 type [mef:ChangePasswordResponseType](#)
 properties content complex
 children [Status](#)
 source <xs:element name="ChangePasswordResponse" type="mef:ChangePasswordResponseType"/>

1.3.1.4.3 element MeFException

diagram 
 namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
 type [mef:MeFExceptionType](#)
 properties content complex
 children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)
 source <xs:element name="MeFException" type="mef:MeFExceptionType"/>

1.3.1.5 ETIN Retrieval

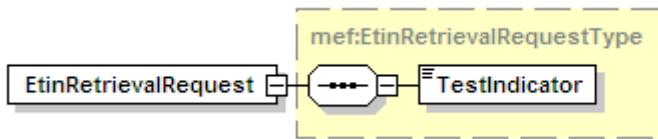
Both States and Third-Party trading partners will have authorization to programmatically request a Web Service to retrieve an array of ETINs for the originating Application System ID provided in the wsse:Security portion of the SOAP header. The requesting system will also provide an EtinRetrievalRequest message in the SOAP body with a Test Indicator ("T" or "P") indicating whether the list of ETINs should be for the Test or Production environment. If successful, the service returns an EtinRetrievalResponse message in the SOAP body containing an array of

ETINs, statuses and forms for the Application System ID, or null if no ETINs are found. Otherwise, a SOAP error message will be returned to the requesting system.

| | |
|---------------|--|
| type | tns:EtinRetrieval |
| extensibility | <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> |
| operations | EtinRetrieval extensi bility input <soap:body parts="EtinRetrieval" use="literal"/><soap:header message="tns:EtinRetrievalRequestMessage" part="MeFHeader" use="literal"/> output <soap:body parts="EtinRetrievalResponse" use="literal"/><soap:header message="tns:EtinRetrievalResponseMessage" part="MeFHeader" use="literal"/> |
| used by | Service EtinRetrieval in Port EtinRetrieval |
| source | <wsdl:binding name="EtinRetrieval" type="tns:EtinRetrieval"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="EtinRetrieval"> <soap:operation soapAction="http://www.irs.gov/a2a/meF/EtinRetrieval"/> <wsdl:input> <soap:body parts="EtinRetrieval" use="literal"/> <soap:header message="tns:EtinRetrievalRequestMessage" part="MeFHeader" use="literal"/> </wsdl:input> <wsdl:output> <soap:body parts="EtinRetrievalResponse" use="literal"/> <soap:header message="tns:EtinRetrievalResponseMessage" part="MeFHeader" use="literal"/> </wsdl:output> <wsdl:fault name="fault"> <soap:fault name="fault" use="literal"/> </wsdl:fault> </wsdl:operation> </wsdl:binding> |

1.3.1.5.1 element EtinRetrievalRequest

diagram



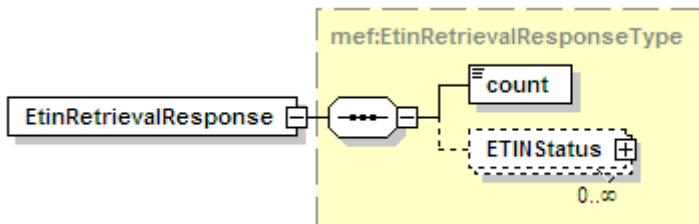
namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
type [mef:EtinRetrievalRequestType](#)
properties content complex
children [TestIndicator](#)
source <xs:element name="EtinRetrievalRequest" type="mef:EtinRetrievalRequestType"/>

simpleType EtinRetrievalRequestType/TestIndicatorType

namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
type restriction of [xs:string](#)
used by element [EtinRetrievalRequestType/TestIndicator](#)
facets enumeration T
enumeration P
source <xs:simpleType name="TestIndicatorType">
<xs:restriction base="xs:string">
<xs:enumeration value="T"/>
<xs:enumeration value="P"/>
</xs:restriction>
</xs:simpleType>

1.3.1.5.2 element EtinRetrievalResponse

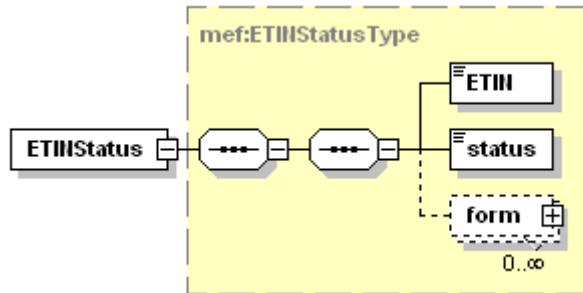
diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>
type [mef:EtinRetrievalResponseType](#)
properties content complex
children [count](#) [ETINStatus](#)
source <xs:element name="EtinRetrievalResponse" type="mef:EtinRetrievalResponseType"/>

EtinRetrievalResponseType/ETINStatus

diagram



type [mef:ETINStatusType](#)

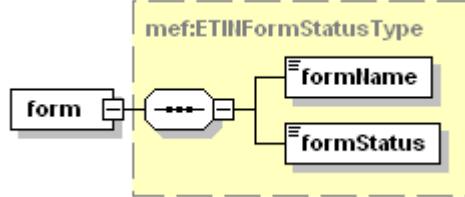
properties isRef 0
content complex

children [ETIN](#) [status](#) [form](#)

source <xs:element name="ETINStatus" type="mef:ETINStatusType" minOccurs="0" maxOccurs="unbounded"/>

ETINStatusType/form

diagram



type [mef:ETINFormStatusType](#)

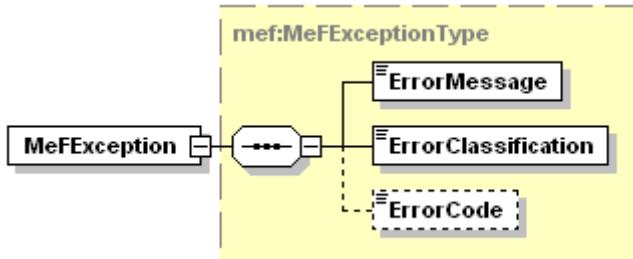
properties isRef 0
content complex

children [formName](#) [formStatus](#)

source <xs:element name="form" type="mef:ETINFormStatusType" minOccurs="0" maxOccurs="unbounded"/>

1.3.1.5.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

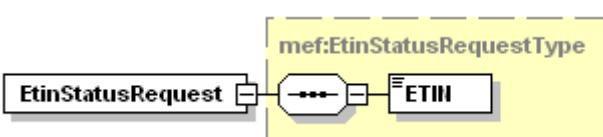
source <xs:element name="MeFException" type="mef:MeFExceptionType"/>

1.3.1.6 ETIN Status

Both States and Third-Party trading partners will have authorization to programmatically request a Web Service to retrieve the status of an ETIN for an originating Application System ID. The requesting system will provide the Application System ID in the wsse:Security portion of the SOAP header and an EtinStatusRequest message in the SOAP body containing the ETIN. If successful, the service returns an EtinStatusResponse message in the SOAP body containing the ETIN, its status and a list of forms for the requested ETIN, or null if the ETIN is not found. Otherwise, a SOAP error message will be returned to the requesting system.

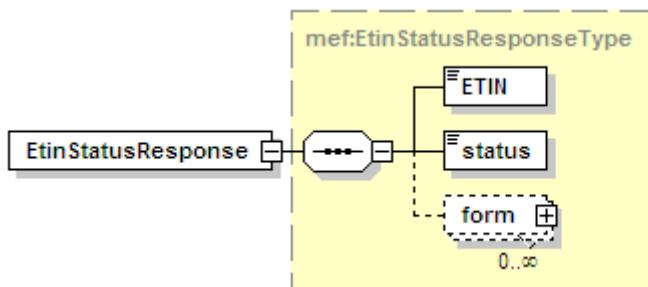
| | |
|---------------|--|
| type | tns:EtinStatus |
| extensibility | <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> |
| operations | EtinStatus extensi bility input <soap:body parts="EtinStatus" use="literal"/><soap:header message="tns:EtinStatusRequestMessage" part="MeFHeader" use="literal"/> output <soap:body parts="EtinStatusResponse" use="literal"/><soap:header message="tns:EtinStatusResponseMessage" part="MeFHeader" use="literal"/> |
| used by | Service EtinStatus in Port EtinStatus |
| source | <wsdl:binding name="EtinStatus" type="tns:EtinStatus"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="EtinStatus"> <soap:operation soapAction="http://www.irs.gov/a2a/mef/EtinStatus"/> <wsdl:input> <soap:body parts="EtinStatus" use="literal"/> <soap:header message="tns:EtinStatusRequestMessage" part="MeFHeader" use="literal"/> </wsdl:input> <wsdl:output> <soap:body parts="EtinStatusResponse" use="literal"/> <soap:header message="tns:EtinStatusResponseMessage" part="MeFHeader" use="literal"/> </wsdl:output> <wsdl:fault name="fault"> <soap:fault name="fault" use="literal"/> </wsdl:fault> </wsdl:operation> </wsdl:binding> |

1.3.1.6.1 element EtinStatusRequest

| | |
|------------|---|
| diagram |  |
| namespace | http://www.irs.gov/a2a/mef/MeFMSIServices.xsd |
| type | mef:EtinStatusRequestType |
| properties | content complex |
| children | ETIN |
| source | <xss:element name="EtinStatusRequest" type="mef:EtinStatusRequestType"/> |

1.3.1.6.2 element EtinStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:EtinStatusResponseType](#)

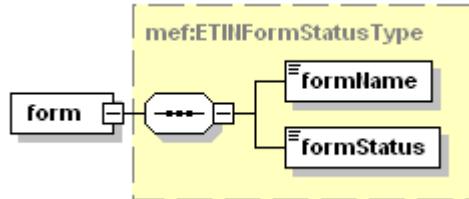
properties content complex

children [ETIN](#) [status](#) [form](#)

source <xs:element name="EtinStatusResponse" type="mef:EtinStatusResponseType"/>

ETINStatusResponseType/form

diagram



type [mef:ETINFormStatusType](#)

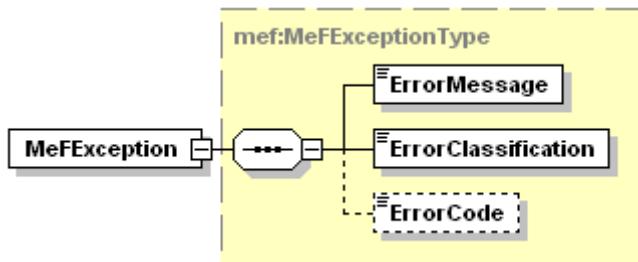
properties isRef 0 content complex

children [formName](#) [formStatus](#)

source <xs:element name="form" type="mef:ETINFormStatusType" minOccurs="0" maxOccurs="unbounded"/>

1.3.1.6.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

source <xs:element name="MeFException" type="mef:MeFExceptionType"/>

1.3.1.7 Get State Participants List

Both States and Third-Party trading partners will have authorization to programmatically request a Web Service to retrieve an array of State participants. Even though there are no formal input arguments to this service request, the requestor must provide an empty GetStateParticipantsList message tag in the SOAP body. If successful, the service returns a GetStateParticipantsListResponse message in the SOAP body containing an array of State names and participant programs (a comma-separated list of Doing Business As indicators) or null if no State participants are found. Otherwise, a SOAP error message will be returned to the requesting system.

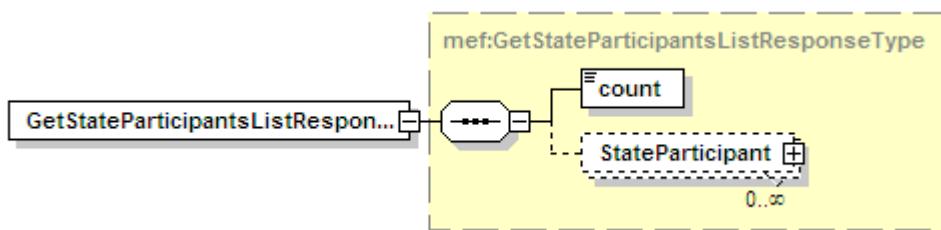
| | |
|---------------|--|
| type | tns:GetStateParticipantsList |
| extensibility | <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> |
| operations | GetStateParticipantsList extensi bility input <soap:body parts="GetStateParticipantsList" use="literal"/><soap:header message="tns:GetStateParticipantsListRequestMessage" part="MeFHeader" use="literal"/> output <soap:body parts="GetStateParticipantsListResponse" use="literal"/><soap:header message="tns:GetStateParticipantsListResponseMessage" part="MeFHeader" use="literal"/> |
| used by | Service GetStateParticipantsList in Port GetStateParticipantsList |
| source | <wsdl:binding name="GetStateParticipantsList" type="tns:GetStateParticipantsList"> <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/> <wsdl:operation name="GetStateParticipantsList"> <soap:operation soapAction="http://www.irs.gov/a2a/mef/GetStateParticipantsList"/> <wsdl:input> <soap:body parts="GetStateParticipantsList" use="literal"/> <soap:header message="tns:GetStateParticipantsListRequestMessage" part="MeFHeader" use="literal"/> </wsdl:input> <wsdl:output> <soap:body parts="GetStateParticipantsListResponse" use="literal"/> <soap:header message="tns:GetStateParticipantsListResponseMessage" part="MeFHeader" use="literal"/> </wsdl:output> <wsdl:fault name="fault"> <soap:fault name="fault" use="literal"/> </wsdl:fault> </wsdl:operation> </wsdl:binding> |

1.3.1.7.1 element GetStateParticipantsListRequest

| | |
|------------|---|
| diagram | <pre>classDiagram class GetStateParticipantsListRequest { <<mef:GetStateParticipantsListRequestType>> } class mef:GetStateParticipantsListRequestType GetStateParticipantsListRequest < -- mef:GetStateParticipantsListRequestType</pre> |
| namespace | http://www.irs.gov/a2a/mef/MeFMSIServices.xsd |
| type | mef:GetStateParticipantsListRequestType |
| properties | content complex |
| source | <xsd:element name="GetStateParticipantsListRequest" type="mef:GetStateParticipantsListRequestType"/> |

1.3.1.7.2 element GetStateParticipantsListResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [`mef:GetStateParticipantsListResponseType`](#)

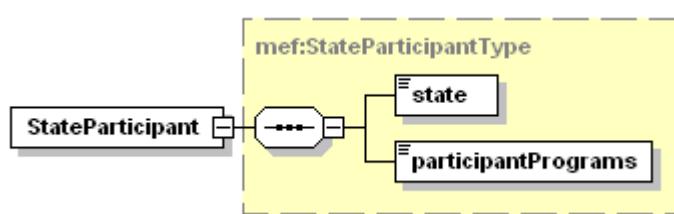
properties content complex

children [`count StateParticipant`](#)

source `<xss:element name="GetStateParticipantsListResponse" type="mef:GetStateParticipantsListResponseType"/>`

GetStateParticipantsListResponseType/StateParticipant

diagram



type [`mef:StateParticipantType`](#)

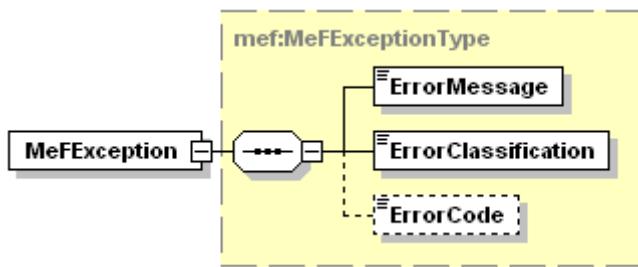
properties isRef 0
content complex

children [`state participantPrograms`](#)
state name and a comma-separated list of Doing Business As indicators

source `<xss:element name="StateParticipant" type="mef:StateParticipantType" minOccurs="0" maxOccurs="unbounded"/>`

1.3.1.7.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [`mef:MeFExceptionType`](#)

properties content complex

children [`ErrorMessage ErrorClassification ErrorCode`](#)

source `<xss:element name="MeFException" type="mef:MeFExceptionType"/>`

1.3.2 Third Party Transmitter Services J2EE & MIME

The services pertinent to the transmitter services are described in the following sections.

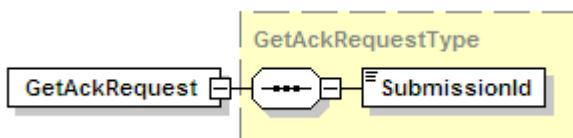
| MIME services | bindings | porttypes | messages |
|---|---|---|---|
| GetAck | GetAck | GetAck | GetAckRequest |
| GetAcks | GetAcks | GetAcks | GetAckResponse |
| GetNewAcks | GetNewAcks | GetNewAcks | GetAcksRequest |
| GetNewSubmissionsStatus | GetNewSubmissionsStatus | GetNewSubmissionsStatus | GetAcksResponse |
| GetSubmissionsStatus | GetSubmissionsStatus | GetSubmissionsStatus | GetNewAcksRequest |
| GetSubmissionStatus | GetSubmissionStatus | GetSubmissionStatus | GetNewAcksResponse |
| SendSubmissions | SendSubmissions | SendSubmissions | GetNewSubmissionsStatusRequest |
| | | | GetNewSubmissionsStatusResponse |
| | | | GetSubmissionsStatusRequest |
| | | | GetSubmissionsStatusResponse |
| | | | GetSubmissionStatusRequest |
| | | | GetSubmissionStatusResponse |
| | | | MeFException |
| | | | SendSubmissionsRequest |
| | | | SendSubmissionsResponse |

1.3.2.1 Get Ack

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve acknowledgement for a specified submission ID. The requesting system will provide a GetAckRequest message in the SOAP body containing the submission ID. If successful, the service returns an empty GetAckResponse message tag in the SOAP body and a MIME attachment containing the acknowledgement. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.1.1 element GetAckRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetAckRequestType](#)

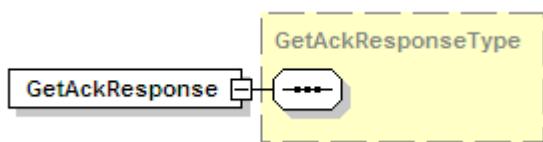
properties content complex

children [SubmissionId](#)

source [`<xsd:element name="GetAckRequest" type="GetAckRequestType"/>`](#)

1.3.2.1.2 element GetAckResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetAckResponseType](#)

properties content complex

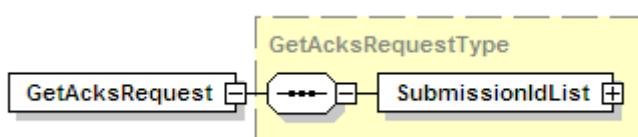
source <xsd:element name="GetAckResponse" type="GetAckResponseType"/>

1.3.2.2 Get Acks

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve acknowledgements for a specified list of submission IDs. The requesting system will provide a GetAcksRequest message in the SOAP body containing the list of submission IDs. If successful, the service returns a GetAcksResponse message in the SOAP body containing a list of submission errors, if any, and MIME attachments containing the acknowledgements. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.2.1 element GetAcksRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetAcksRequestType](#)

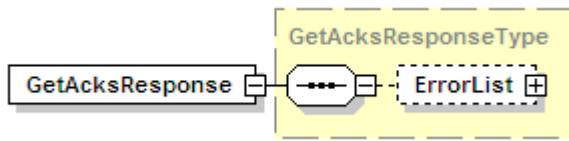
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetAcksRequest" type="GetAcksRequestType"/>

1.3.2.2.2 element GetAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetAcksResponseType](#)

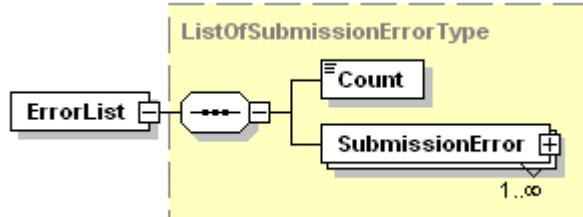
properties content complex

children [ErrorList](#)

source <xsd:element name="GetAcksResponse" type="GetAcksResponseType"/>

GetAcksResponseType/ErrorList

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [ListOfSubmissionErrorType](#)

properties isRef 0
content complex

children [Count](#) [SubmissionError](#)

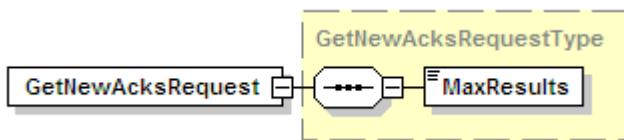
source <xsd:element name="ErrorList" type="ListOfSubmissionErrorType" minOccurs="0"/>

1.3.2.3 Get New Acks

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve new acknowledgements for a particular ETIN. The requesting system will provide a GetNewAcksRequest message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewAcksResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgements are available, and MIME attachments containing the acknowledgements. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.3.1 element GetNewAcksRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetNewAcksResponseType](#)

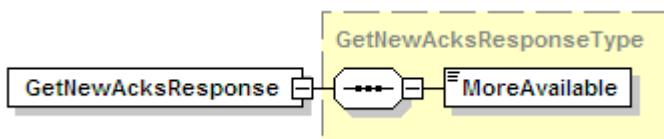
properties content complex

children [MaxResults](#)

source <xsd:element name="GetNewAcksRequest" type="GetNewAcksResponseType"/>

1.3.2.3.2 element GetNewAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetNewAcksResponseType](#)

properties content complex

children [MoreAvailable](#)

source <xsd:element name="GetNewAcksResponse" type="GetNewAcksResponseType"/>

GetNewAcksResponseType/MoreAvailable

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [xsd:boolean](#)

properties isRef 0
content simple

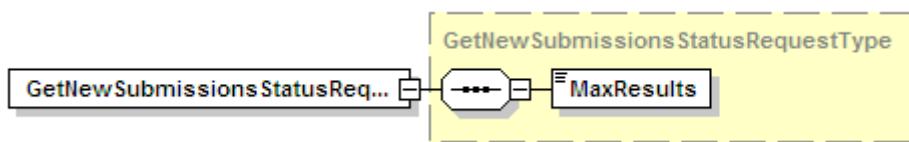
source <xsd:element name="MoreAvailable" type="xsd:boolean"/>

1.3.2.4 Get New Submissions Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve new submissions statuses for a particular ETIN. The requesting system will provide a GetNewSubmissionsStatusRequest message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewSubmissionsStatusResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgements are available, and MIME attachments containing the submission statuses. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.4.1 element GetNewSubmissionsStatusRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetNewSubmissionsStatusRequestType](#)

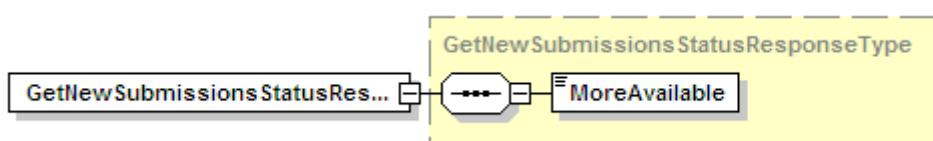
properties content complex

children [MaxResults](#)

source <xsd:element name="GetNewSubmissionsStatusRequest" type="GetNewSubmissionsStatusRequestType"/>

1.3.2.4.2 element GetNewSubmissionsStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetNewSubmissionsStatusResponseType](#)

properties content complex

children [MoreAvailable](#)

source <xsd:element name="GetNewSubmissionsStatusResponse" type="GetNewSubmissionsStatusResponseType"/>

GetNewSubmissionsStatusResponseType/MoreAvailable

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [xsd:boolean](#)

properties isRef 0
content simple

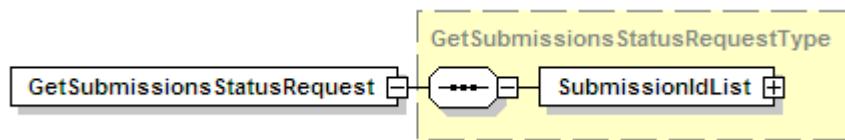
source <xsd:element name="MoreAvailable" type="xsd:boolean"/>

1.3.2.5 Get Submissions Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve submissions statuses for a specific set of returns. The requesting system will provide a GetSubmissionsStatusRequest message in the SOAP body containing a list of submission IDs. If successful, the service returns a GetSubmissionsStatusResponse message in the SOAP body containing a list of submission errors, if any, and MIME attachments containing the submission statuses. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.5.1 element GetSubmissionsStatusRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetSubmissionsStatusRequestType](#)

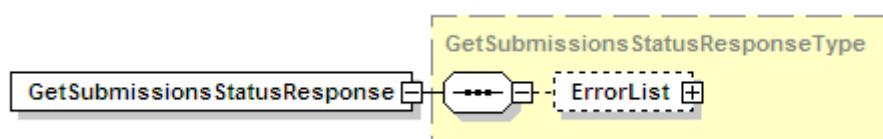
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetSubmissionsStatusRequest" type="GetSubmissionsStatusRequestType"/>

1.3.2.5.2 element GetSubmissionsStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetSubmissionsStatusResponseType](#)

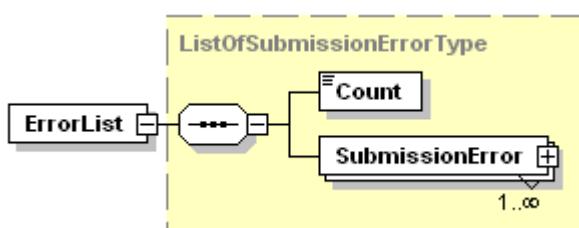
properties content complex

children [ErrorList](#)

source <xsd:element name="GetSubmissionsStatusResponse" type="GetSubmissionsStatusResponseType"/>

GetSubmissionsStatusResponseType/ErrorList

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [ListOfSubmissionErrorType](#)

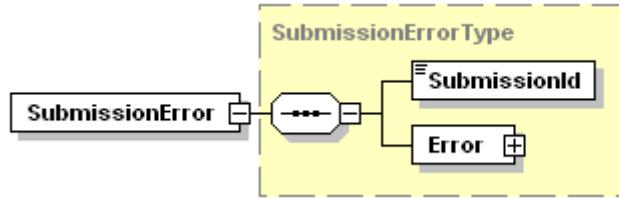
properties isRef 0
content complex

children [Count](#) [SubmissionError](#)

source <xsd:element name="ErrorList" type="ListOfSubmissionErrorType" minOccurs="0"/>

ListOfSubmissionErrorType/SubmissionError

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [SubmissionErrorType](#)

properties isRef 0
content complex

children [SubmissionId](#) [Error](#)

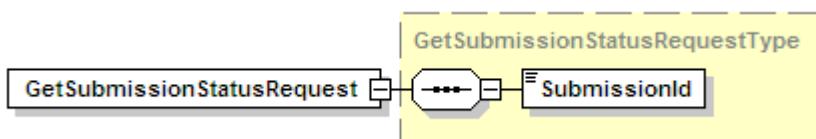
source <xsd:element name="SubmissionError" type="SubmissionErrorType" maxOccurs="unbounded"/>

1.3.2.6 Get Submission Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve a submission status for a specific return. The requesting system will provide a GetSubmissionStatusRequest message in the SOAP body containing a submission ID. If successful, the service returns an empty GetSubmissionStatusResponse tag in the SOAP body and a MIME attachment containing the submission status. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.6.1 element GetSubmissionStatusRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [GetSubmissionStatusRequestType](#)

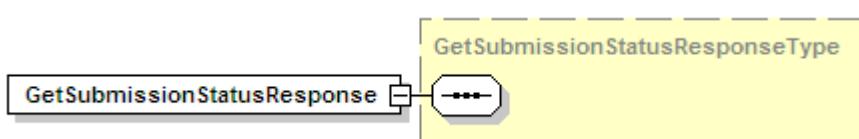
properties content complex

children [SubmissionId](#)

source <xsd:element name="GetSubmissionStatusRequest" type="GetSubmissionStatusRequestType"/>

1.3.2.6.2 element GetSubmissionStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

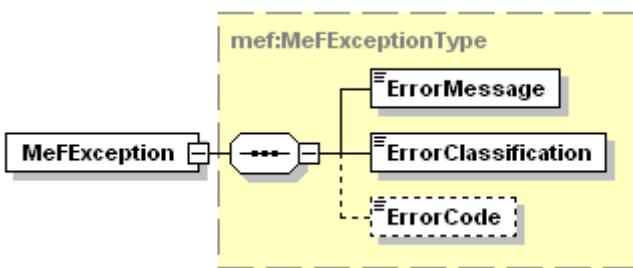
type [GetSubmissionStatusResponseType](#)

properties content complex

source <xsd:element name="GetSubmissionStatusResponse" type="GetSubmissionStatusResponseType"/>

1.3.2.6.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

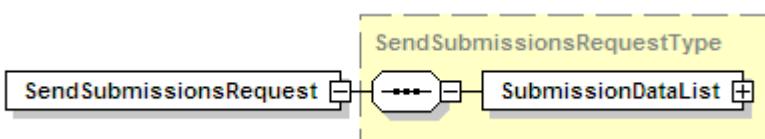
source [<xsd:element name="MeFException" type="mef:MeFExceptionType"/>](#)

1.3.2.7 Send Submissions

Third Party Transmitters will have authorization to programmatically request a Web Service to send submissions for a specific set of returns. The requesting system will provide a SendSubmissionsRequest message in the SOAP body containing a list of submission IDs and MIME attachments containing the submissions. If successful, the service returns an empty SendSubmissionsResponse tag in the SOAP body, and a MIME attachment containing a list of submission receipts. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.2.7.1 element SendSubmissionsRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [SendSubmissionsRequestType](#)

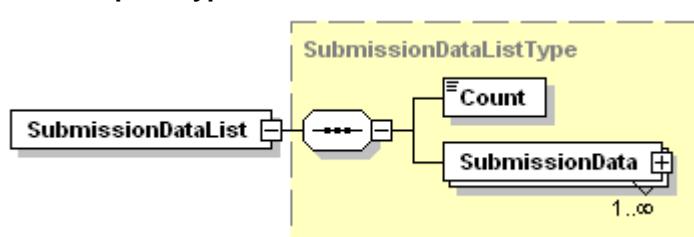
properties content complex

children [SubmissionDataList](#)

source [<xsd:element name="SendSubmissionsRequest" type="SendSubmissionsRequestType"/>](#)

SendSubmissionsRequestType/SubmissionDataList

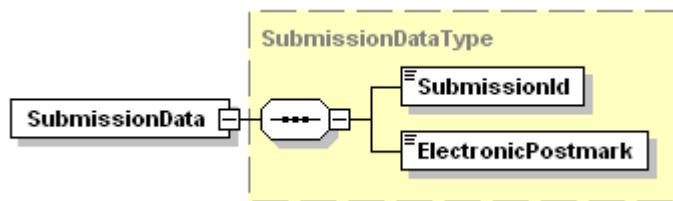
diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>
 type [SubmissionDataListType](#)
 properties
 isRef 0
 content complex
 children [Count](#) [SubmissionData](#)
 source <xsd:element name="SubmissionDataList" type="SubmissionDataListType"/>

SubmissionDataListType/SubmissionData

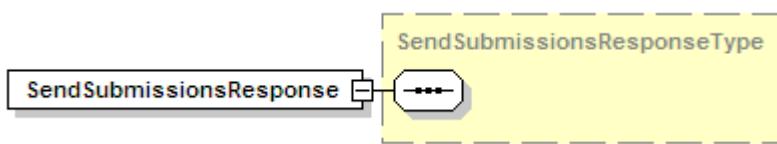
diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>
 type [SubmissionDataType](#)
 properties
 isRef 0
 content complex
 children [SubmissionId](#) [ElectronicPostmark](#)
 source <xsd:element name="SubmissionData" type="SubmissionDataType" maxOccurs="unbounded"/>

1.3.2.7.2 element SendSubmissionsResponse

Diagram



Namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>
 Type [SendSubmissionsResponseType](#)
 Properties content complex
 Source <xsd:element name="SendSubmissionsResponse" type="SendSubmissionsResponseType"/>

1.3.3 Third Party Transmitter Services .NET & DIME

The services pertinent to the transmitter services are described in the following sections.

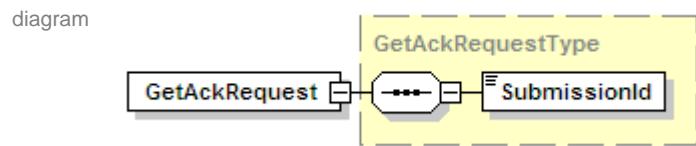
| DIME services | bindings | porttypes | messages |
|---|---|---|---|
| GetAck | GetAck | GetAck | GetAckRequest |
| GetAcks | GetAcks | GetAcks | GetAckResponse |
| GetNewAcks | GetNewAcks | GetNewAcks | GetAcksRequest |
| GetNewSubmissionsStatus | GetNewSubmissionsStatus | GetNewSubmissionsStatus | GetAcksResponse |
| GetSubmissionsStatus | GetSubmissionsStatus | GetSubmissionsStatus | GetNewAcksRequest |
| GetSubmissionStatus | GetSubmissionStatus | GetSubmissionStatus | GetNewAcksResponse |
| SendSubmissions | SendSubmissions | SendSubmissions | GetNewSubmissionsStatusRequest |
| | | | GetNewSubmissionsStatusResponse |

[GetSubmissionsStatusRequest](#)
[GetSubmissionsStatusResponse](#)
[GetSubmissionStatusRequest](#)
[GetSubmissionStatusResponse](#)
[MeFException](#)
[SendSubmissionsRequest](#)
[SendSubmissionsResponse](#)

1.3.3.1 Get Ack

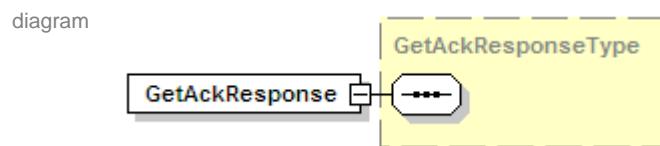
Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve acknowledgement for a specified submission ID. The requesting system will provide a GetAckRequest message in the SOAP body containing the submission ID. If successful, the service returns an empty GetAckResponse message tag in the SOAP body and a DIME attachment containing the acknowledgement. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.1.1 element GetAckRequest



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>
type [GetAckRequestType](#)
properties content complex
children [SubmissionId](#)
source <xsd:element name="GetAckRequest" type="GetAckRequestType"/>

1.3.3.1.2 element GetAckResponse



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>
type [GetAckResponseType](#)
properties content complex
source <xsd:element name="GetAckResponse" type="GetAckResponseType"/>

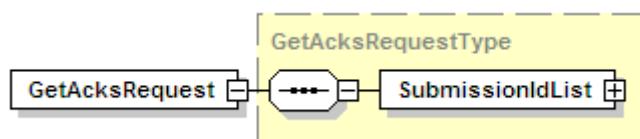
1.3.3.2 Get Acks

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve acknowledgements for a specified list of submission IDs. The requesting system will provide a GetAcksRequest message in the SOAP body containing the list of submission IDs. If

successful, the service returns a GetAcksResponse message in the SOAP body containing a list of submission errors, if any, and DIME attachments containing the acknowledgements. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.2.1 element GetAcksRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetAcksRequestType](#)

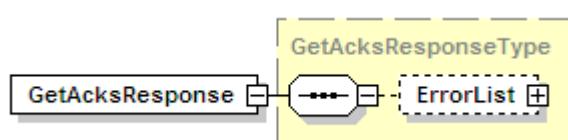
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetAcksRequest" type="GetAcksRequestType"/>

1.3.3.2.2 element GetAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetAcksResponseType](#)

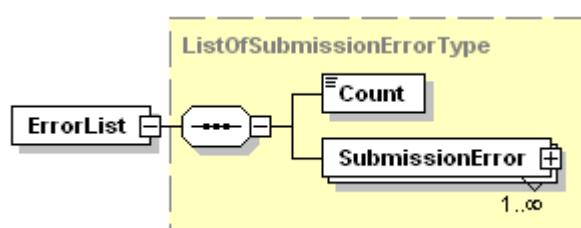
properties content complex

children [ErrorList](#)

source <xsd:element name="GetAcksResponse" type="GetAcksResponseType"/>

GetAcksResponseType/ErrorList

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [ListOfSubmissionErrorType](#)

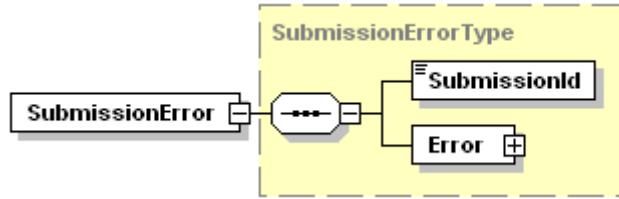
properties isRef 0
content complex

children [Count](#) [SubmissionError](#)

source <xsd:element name="ErrorList" type="ListOfSubmissionErrorType" minOccurs="0"/>

ListOfSubmissionErrorType/SubmissionError

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [SubmissionErrorType](#)

properties isRef 0
content complex

children [SubmissionId](#) [Error](#)

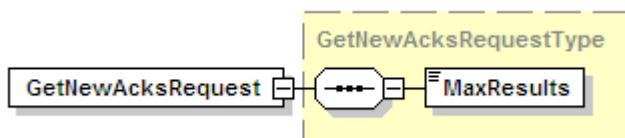
source <xsd:element name="SubmissionError" type="SubmissionErrorType" maxOccurs="unbounded"/>

1.3.3.3 Get New Acks

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve new acknowledgements for a particular ETIN. The requesting system will provide a GetNewAcksRequest message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewAcksResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgements are available, and DIME attachments containing the acknowledgements. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.3.1 element GetNewAcksRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetNewAcksRequestType](#)

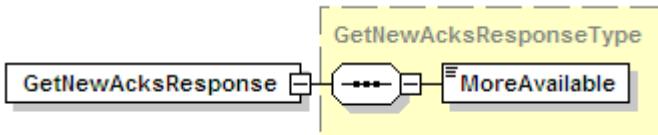
properties content complex

children [MaxResults](#)

source <xsd:element name="GetNewAcksRequest" type="GetNewAcksRequestType"/>

1.3.3.3.2 element GetNewAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetNewAcksResponseType](#)

properties content complex

children [MoreAvailable](#)

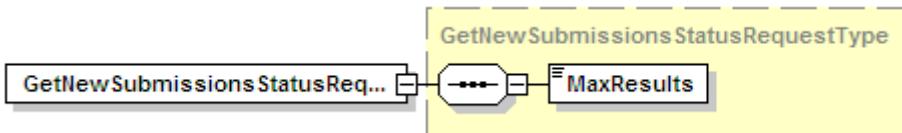
source <xsd:element name="GetNewAcksResponse" type="GetNewAcksResponseType"/>

1.3.3.4 Get New Submissions Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve new submissions statuses for a particular ETIN. The requesting system will provide a GetNewSubmissionsStatusRequest message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewSubmissionsStatusResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgements are available, and DIME attachments containing the submission statuses. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.4.1 element GetNewSubmissionsStatusRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetNewSubmissionsStatusRequestType](#)

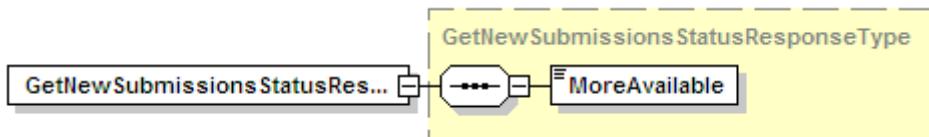
properties content complex

children [MaxResults](#)

source <xsd:element name="GetNewSubmissionsStatusRequest" type="GetNewSubmissionsStatusRequestType"/>

1.3.3.4.2 element GetNewSubmissionsStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetNewSubmissionsStatusResponseType](#)

properties content complex

children [MoreAvailable](#)

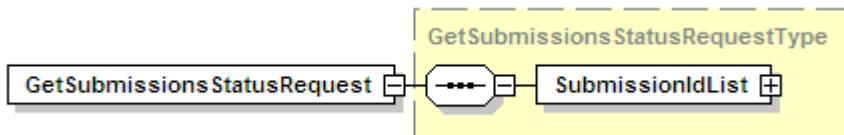
source <xsd:element name="GetNewSubmissionsStatusResponse" type="GetNewSubmissionsStatusResponseType"/>

1.3.3.5 Get Submissions Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve submissions statuses for a specific set of returns. The requesting system will provide a GetSubmissionsStatusRequest message in the SOAP body containing a list of submission IDs. If successful, the service returns a GetSubmissionsStatusResponse message in the SOAP body containing a list of submission errors, if any, and DIME attachments containing the submission statuses. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.5.1 element GetSubmissionsStatusRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [GetSubmissionsStatusRequestType](#)

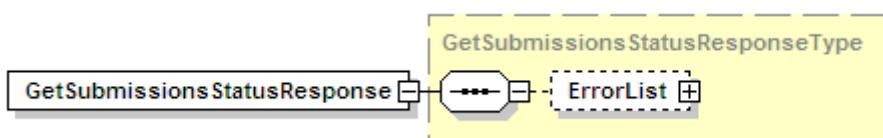
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetSubmissionsStatusRequest" type="GetSubmissionsStatusRequestType"/>

1.3.3.5.2 element GetSubmissionsStatusResponse

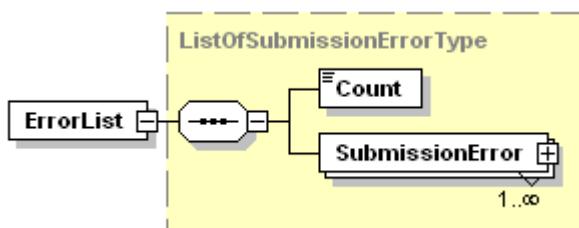
diagram



namespace http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd
 type [GetSubmissionsStatusResponseType](#)
 properties content complex
 children [ErrorList](#)
 source <xsd:element name="GetSubmissionsStatusResponse" type="GetSubmissionsStatusResponseType"/>

GetSubmissionsStatusResponseType/ErrorList

diagram



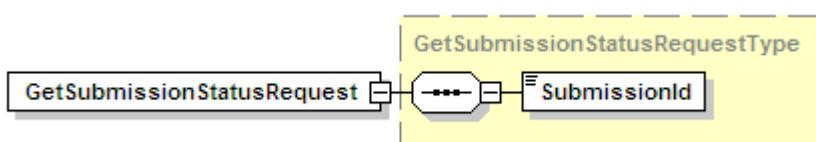
namespace http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd
 type [ListOfSubmissionErrorType](#)
 properties isRef 0
 content complex
 children [Count](#) [SubmissionError](#)
 source <xsd:element name="ErrorList" type="ListOfSubmissionErrorType" minOccurs="0"/>

1.3.3.6 Get Submission Status

Third Party Transmitters will have authorization to programmatically request a Web Service to retrieve a submission status for a specific return. The requesting system will provide a GetSubmissionStatusRequest message in the SOAP body containing a submission ID. If successful, the service returns an empty GetSubmissionStatusResponse tag in the SOAP body and a DIME attachment containing the submission status. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.6.1 element GetSubmissionStatusRequest

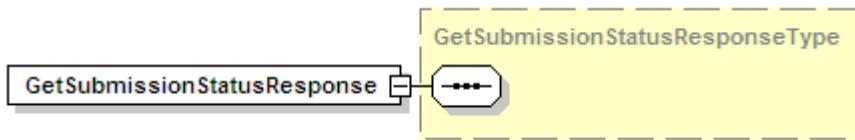
diagram



namespace http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd
 type [GetSubmissionStatusRequestType](#)
 properties content complex
 children [SubmissionId](#)
 source <xsd:element name="GetSubmissionStatusRequest" type="GetSubmissionStatusRequestType"/>

1.3.3.6.2 element GetSubmissionStatusResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

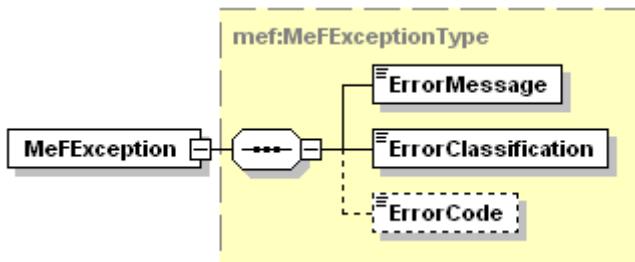
type [GetSubmissionStatusResponseType](#)

properties content complex

source <xsd:element name="GetSubmissionStatusResponse" type="GetSubmissionStatusResponseType"/>

1.3.3.6.3 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFMSIServices.xsd>

type [mef:MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

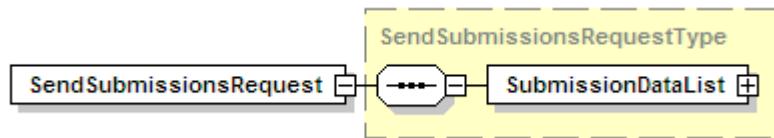
source <xsd:element name="MeFException" type="mef:MeFExceptionType"/>

1.3.3.7 Send Submissions

Third Party Transmitters will have authorization to programmatically request a Web Service to send submissions for a specific set of returns. The requesting system will provide a SendSubmissionsRequest message in the SOAP body containing a list of submission IDs and DIME attachments containing the submissions. . If successful, the service returns an empty SendSubmissionsResponse tag in the SOAP body, and a DIME attachment containing a list submission receipts. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.3.7.1 element SendSubmissionsRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [SendSubmissionsRequestType](#)

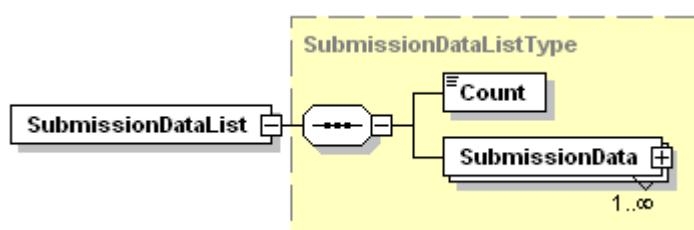
properties content complex

children [SubmissionDataList](#)

source `<xsd:element name="SendSubmissionsRequest" type="SendSubmissionsRequestType"/>`

SendSubmissionsRequestType/SubmissionDataList

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [SubmissionDataListType](#)

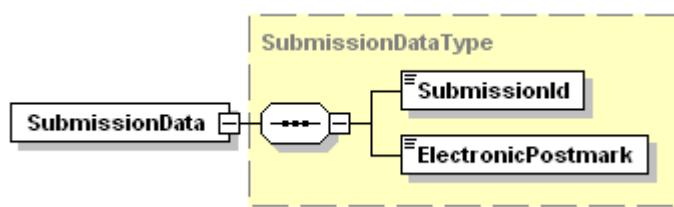
properties isRef 0
content complex

children [Count](#) [SubmissionData](#)

source `<xsd:element name="SubmissionDataList" type="SubmissionDataListType"/>`

SubmissionDataListType/SubmissionData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterService.xsd>

type [SubmissionDataType](#)

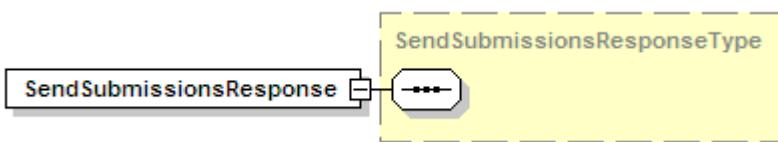
properties isRef 0
content complex

children [SubmissionId](#) [ElectronicPostmark](#)

source `<xsd:element name="SubmissionData" type="SubmissionDataType" maxOccurs="unbounded"/>`

1.3.3.7.2 element SendSubmissionsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFTransmitterServiceWse.xsd>

type [SendSubmissionsResponseType](#)

properties content complex

source <xsd:element name="SendSubmissionsResponse" type="SendSubmissionsResponseType"/>

1.3.4 State Transmission Services J2EE & MIME

The services pertinent to the state services are described in the following sections.

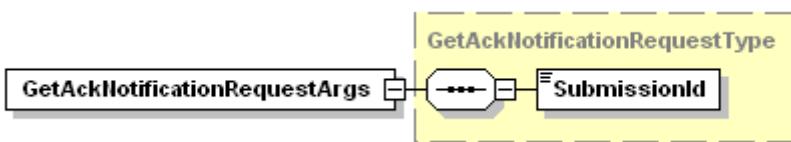
| MIME services | bindings | porttypes | messages |
|---|---|---|---|
| <u>GetAckNotification</u> | <u>GetAckNotification</u> | <u>GetAckNotification</u> | <u>GetAckNotificationRequest</u> |
| <u>GetAckNotifications</u> | <u>GetAckNotifications</u> | <u>GetAckNotifications</u> | <u>GetAckNotificationResponse</u> |
| <u>GetNewAckNotifications</u> | <u>GetNewAckNotifications</u> | <u>GetNewAckNotifications</u> | <u>GetAckNotificationsRequest</u> |
| <u>GetNewSubmissions</u> | <u>GetNewSubmissions</u> | <u>GetNewSubmissions</u> | <u>GetAckNotificationsResponse</u> |
| <u>GetSubmission</u> | <u>GetSubmission</u> | <u>GetSubmission</u> | <u>GetNewAckNotificationsRequest</u> |
| <u>GetSubmissions</u> | <u>GetSubmissions</u> | <u>GetSubmissions</u> | <u>GetNewAckNotificationsResponse</u> |
| <u>SendAcks</u> | <u>SendAcks</u> | <u>SendAcks</u> | <u>GetNewSubmissionsRequest</u> |
| <u>SendSubmissionReceipts</u> | <u>SendSubmissionReceipts</u> | <u>SendSubmissionReceipts</u> | <u>GetNewSubmissionsResponse</u> |
| | | | <u>GetSubmissionRequest</u> |
| | | | <u>GetSubmissionResponse</u> |
| | | | <u>GetSubmissionsRequest</u> |
| | | | <u>GetSubmissionsResponse</u> |
| | | | <u>MeFException</u> |
| | | | <u>SendAcksRequest</u> |
| | | | <u>SendAcksResponse</u> |
| | | | <u>SendSubmissionReceiptsRequest</u> |
| | | | <u>SendSubmissionReceiptsResponse</u> |

1.3.4.1 Get Ack Notification

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a specified state return. The requesting system will provide a GetAckNotificationRequestArgs message in the SOAP body containing the submission ID. If successful, the service returns an empty GetAckNotificationResponse message tag in the SOAP body and a MIME attachment containing the acknowledgement retrieval notification. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.4.1.1 element GetAckNotificationRequestArgs

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd

type [GetAckNotificationRequestType](#)

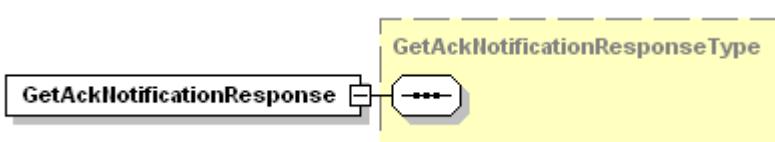
properties content complex

children [SubmissionId](#)

source <xsd:element name="GetAckNotificationRequestArgs" type="msx:GetAckNotificationRequestType"/>

1.3.4.1.2 element GetAckNotificationResponse

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd

type [GetAckNotificationResponseType](#)

properties content complex

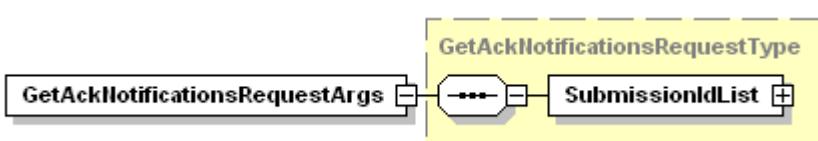
source <xsd:element name="GetAckNotificationResponse" type="msx:GetAckNotificationResponseType"/>

1.3.4.2 Get Ack Notifications

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a specified set of state returns. The requesting system will provide a GetAckNotificationsRequestArgs message in the SOAP body containing a list of submission IDs. If successful, the service returns a GetAckNotificationsResponse message in the SOAP body containing a list of submission errors, if any, and MIME attachments containing the acknowledgement retrieval notification. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.4.2.1 element GetAckNotificationsRequestArgs

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd

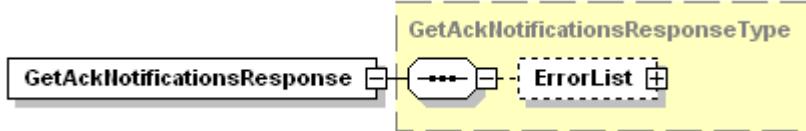
type [GetAckNotificationsRequestType](#)

properties content complex

children [SubmissionIdList](#)
 source <xsd:element name="GetAckNotificationsRequestArgs" type="msx:GetAckNotificationsRequestType"/>

1.3.4.2.2 element GetAckNotificationsResponse

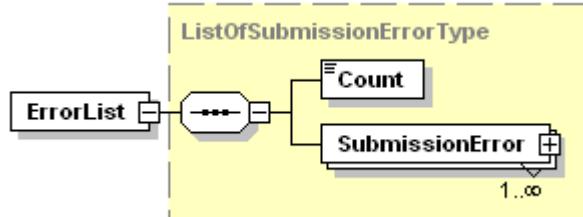
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
 type [GetAckNotificationsResponseType](#)
 properties content complex
 children [ErrorList](#)
 source <xsd:element name="GetAckNotificationsResponse" type="msx:GetAckNotificationsResponseType"/>

GetAckNotificationsResponseType/ErrorList

diagram



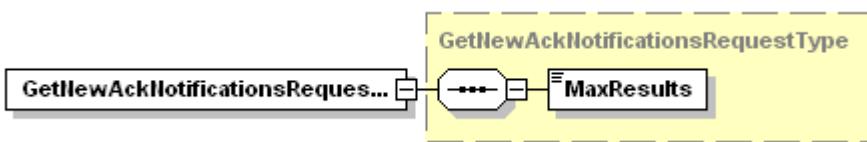
namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
 type [ListOfSubmissionErrorType](#)
 properties isRef 0
 content complex
 children [Count](#) [SubmissionError](#)
 source <xsd:element name="ErrorList" type="msx:ListOfSubmissionErrorType" minOccurs="0"/>

1.3.4.3 Get New Ack Notifications

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a particular ETIN. The requesting system will provide a GetNewAckNotificationsRequestArgs message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewAckNotificationsResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgement retrieval notifications are available, and MIME attachments containing the acknowledgement retrieval notifications. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.4.3.1 element GetNewAckNotificationsRequestArgs

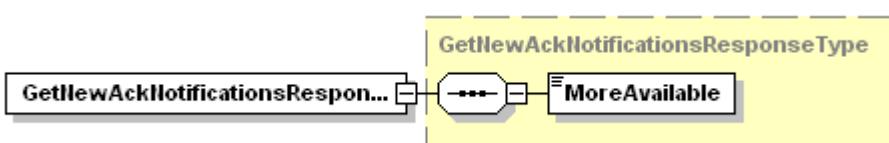
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
type [GetNewAckNotificationsRequestType](#)
properties content complex
children [MaxResults](#)
source <xsd:element name="GetNewAckNotificationsRequestArgs" type="msx:GetNewAckNotificationsRequestType"/>

1.3.4.3.2 element GetNewAckNotificationsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
type [GetNewAckNotificationsResponseType](#)
properties content complex
children [MoreAvailable](#)
source <xsd:element name="GetNewAckNotificationsResponse" type="msx:GetNewAckNotificationsResponseType"/>

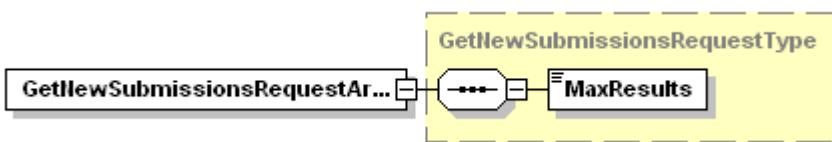
1.3.4.4 Get New Submissions

States will have authorization to programmatically request a Web Service to retrieve specified number of submissions for a particular ETIN. The requesting system will provide a GetNewSubmissionsRequestArgs message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewSubmissionsResponse message in the SOAP body and MIME attachments containing the submissions. Otherwise, a SOAP error message will be returned to the requesting system.

The GetNewSubmissionsResponse message contains a Boolean flag indicating if more submissions are available and a list of submission IDs, ETINs, timestamps indicating when the submission was received, the federal EIN statuses, timestamps indicating when the submissions were retrieved, and the submission IDs used to submit the returns.

1.3.4.4.1 element GetNewSubmissionsRequestArgs

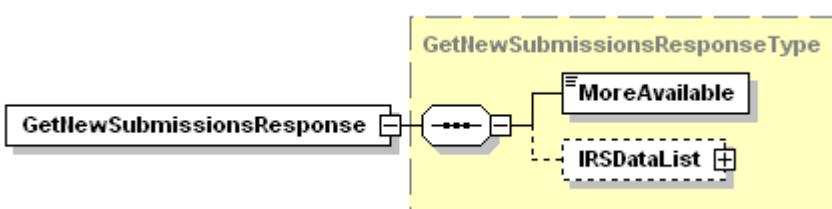
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
type [GetNewSubmissionsRequestType](#)
properties content complex
children [MaxResults](#)
source <xsd:element name="GetNewSubmissionsRequestArgs" type="msx:GetNewSubmissionsRequestType"/>

1.3.4.4.2 element GetNewSubmissionsResponse

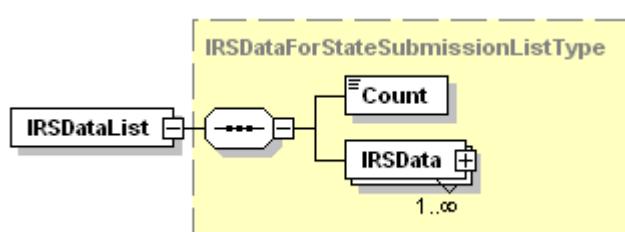
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
type [GetNewSubmissionsResponseType](#)
properties content complex
children [MoreAvailable](#) [IRSDtoList](#)
source <xsd:element name="GetNewSubmissionsResponse" type="msx:GetNewSubmissionsResponseType"/>

GetNewSubmissionsResponseType/IRSDtoList

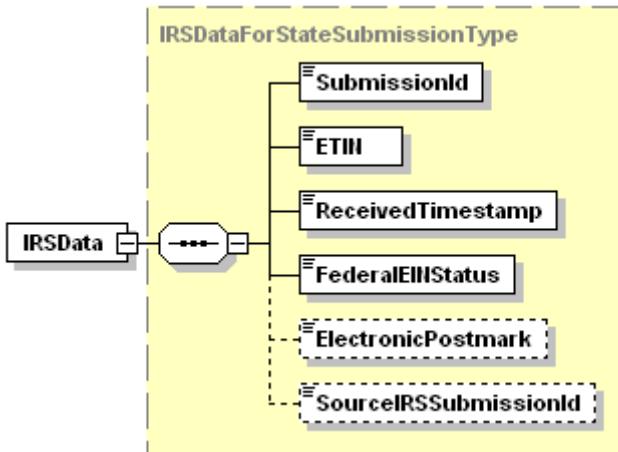
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
type [IRSDtoList](#)
properties isRef 0
content complex
children [Count](#) [IRSDtoList](#)
source <xsd:element name="IRSDtoList" type="msx:IRSDtoList" minOccurs="0"/>

IRSDataForStateSubmissionListType/IRSData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [IRSDataForStateSubmissionType](#)

properties
isRef 0
content complex

children [SubmissionId](#) [ETIN](#) [ReceivedTimestamp](#) [FederalEINStatus](#) [ElectronicPostmark](#) [SourceIRSSubmissionId](#)

source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" maxOccurs="unbounded"/>

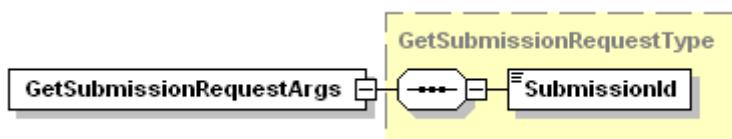
1.3.4.5 Get Submission

States will have authorization to programmatically request a Web Service to retrieve a submission for a specified submission ID. The requesting system will provide a GetSubmissionRequestArgs message in the SOAP body containing the submission ID. If successful, the service returns a GetSubmissionResponse message in the SOAP body and a MIME attachment containing the submission. Otherwise, a SOAP error message will be returned to the requesting system.

The GetSubmissionResponse message contains the submission ID, ETIN, timestamp indicating when the submission was received, the federal EIN status, timestamp indicating when the submission was retrieved, and the submission ID used to submit the returns.

1.3.4.5.1 element GetSubmissionRequestArgs

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [GetSubmissionRequestType](#)

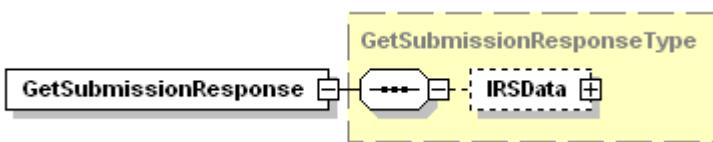
properties content complex

children [SubmissionId](#)

source <xsd:element name="GetSubmissionRequestArgs" type="msx:GetSubmissionRequestType"/>

1.3.4.5.2 element GetSubmissionResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [GetSubmissionResponseType](#)

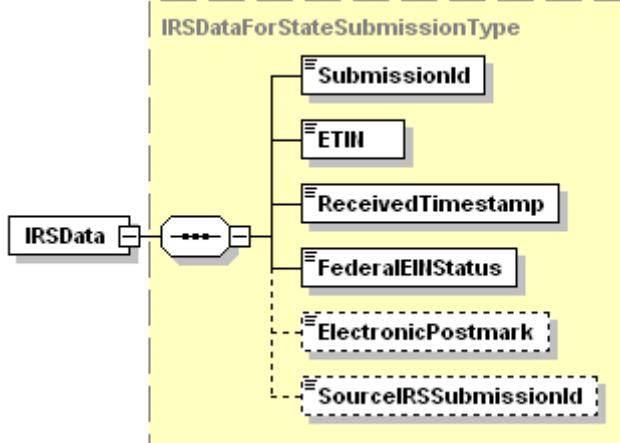
properties content complex

children [IRSData](#)

source <xsd:element name="GetSubmissionResponse" type="msx:GetSubmissionResponseType"/>

GetSubmissionResponseType/IRSData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [IRSDataForStateSubmissionType](#)

properties isRef 0
content complex

children [SubmissionId](#) [ETIN](#) [ReceivedTimestamp](#) [FederalEINStatus](#) [ElectronicPostmark](#) [SourceIRSSubmissionId](#)

source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" maxOccurs="unbounded"/>

1.3.4.6 Get Submissions

States will have authorization to programmatically request a Web Service to retrieve submissions for a specified list of submission IDs. The requesting system will provide a GetSubmissionsRequestArgs message in the SOAP body containing the list of submission IDs. If successful, the service returns a GetSubmissionsResponse message in the SOAP body and MIME attachments containing the submissions. Otherwise, a SOAP error message will be returned to the requesting system.

The GetSubmissionsResponse message contains a list of submission IDs, ETINs, timestamps indicating when the submission was received, the federal EIN statuses, timestamps indicating when the submissions were retrieved, and the submission IDs used to submit the returns and a list of submission errors, if any.

1.3.4.6.1 element GetSubmissionsRequestArgs

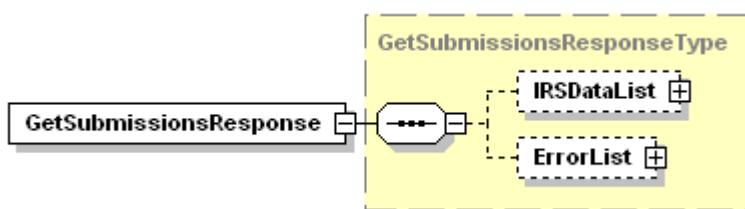
diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd
type [GetSubmissionsRequestType](#)
properties content complex
children [SubmissionIdList](#)
source <xsd:element name="GetSubmissionsRequestArgs" type="msx:GetSubmissionsRequestType"/>

1.3.4.6.2 element GetSubmissionsResponse

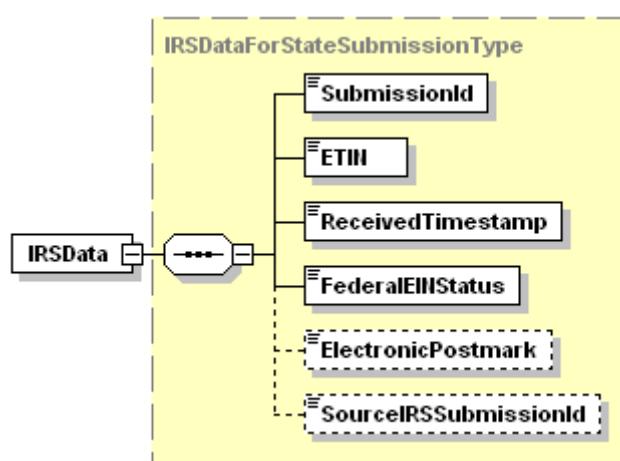
diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd
type [GetSubmissionsResponseType](#)
properties content complex
children [IRSDataList](#) [ErrorList](#)
source <xsd:element name="GetSubmissionsResponse" type="msx:GetSubmissionsResponseType"/>

GetSubmissionsResponse/IRSData

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd
type [IRSDataForStateSubmissionType](#)
properties isRef 0

```

content complex
children SubmissionId ETIN ReceivedTimestamp FederalEINStatus ElectronicPostmark SourceIRSSubmissionId
source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" maxOccurs="unbounded"/>

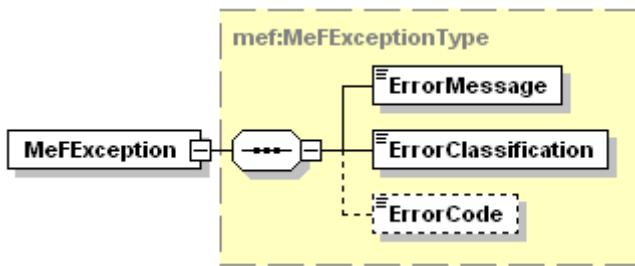
```

1.3.4.7 Exception

When errors occur processing a service request a SOAP fault response is returned containing a MeFException message within the SOAP fault detail tag.

1.3.4.7.1 element MeFException

diagram



```

namespace http://www.irs.gov/a2a/mef/MeFMSIServices.xsd
type mef:MeFExceptionType
properties content complex
children ErrorMessage ErrorClassification ErrorCode
source <xsd:element name="MeFException" type="mef:MeFExceptionType"/>

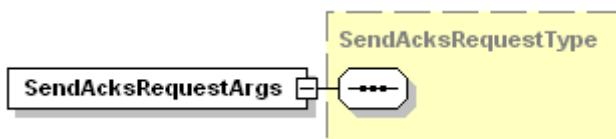
```

1.3.4.8 Send Acks Request

States will have authorization to programmatically request a Web Service to acknowledge the processing of state returns. The requesting system will provide an empty SendAcksRequestArgs tag in the SOAP body and MIME attachments containing the acknowledgements. If successful, the service returns a SendAcksResponse message in the SOAP body indicating the number of acknowledgements received. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.4.8.1 element SendAcksRequestArgs

diagram



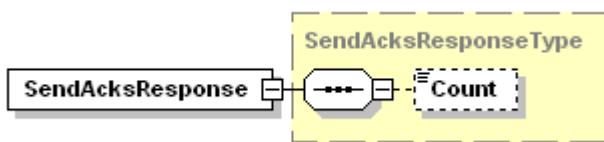
```

namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd
type SendAcksRequestType
properties content complex
source <xsd:element name="SendAcksRequestArgs" type="msx:SendAcksRequestType"/>

```

1.3.4.8.2 element SendAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [SendAcksResponseType](#)

properties content complex

children [Count](#)

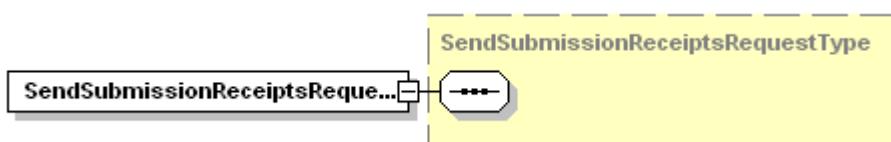
source <xsd:element name="SendAcksResponse" type="msx:SendAcksResponseType"/>

1.3.4.9 Send Submission Receipts

States will have authorization to programmatically request a Web Service to indicate that the specified state returns have been successfully received by the state's application. The requesting system will provide an empty SendSubmissionReceiptsRequestArgs tag in the SOAP body and MIME attachments containing the receipts for the state returns. If successful, the service returns a SendSubmissionReceiptsResponse message in the SOAP body indicating the number of receipts received. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.4.9.1 element SendSubmissionReceiptsRequestArgs

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

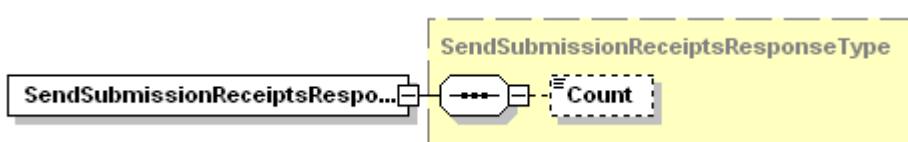
type [SendSubmissionReceiptsRequestType](#)

properties content complex

source <xsd:element name="SendSubmissionReceiptsRequestArgs" type="msx:SendSubmissionReceiptsRequestType"/>

1.3.4.9.2 element SendSubmissionReceiptsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [SendSubmissionReceiptsResponseType](#)

properties content complex

children [Count](#)

source <xsd:element name="SendSubmissionReceiptsResponse" type="msx:SendSubmissionReceiptsResponseType"/>

1.3.5 State Transmission Services .Net & DIME

The services pertinent to the state services are described in the following sections.

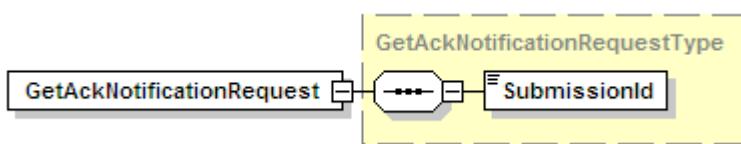
| | | | |
|--|--|--|--|
| DIME services | bindings | porttypes | messages |
| GetAckNotification | GetAckNotification | GetAckNotification | GetAckNotificationRequest |
| GetAckNotifications | GetAckNotifications | GetAckNotifications | GetAckNotificationResponse |
| GetNewAckNotifications | GetNewAckNotifications | GetNewAckNotifications | GetAckNotificationsRequest |
| GetNewSubmissions | GetNewSubmissions | GetNewSubmissions | GetAckNotificationsResponse |
| GetSubmission | GetSubmission | GetSubmission | GetNewAckNotificationsRequest |
| GetSubmissions | GetSubmissions | GetSubmissions | GetNewAckNotificationsResponse |
| SendAcks | SendAcks | SendAcks | GetNewSubmissionsRequest |
| SendSubmissionReceipts | SendSubmissionReceipts | SendSubmissionReceipts | GetNewSubmissionsResponse |
| | | | GetSubmissionRequest |
| | | | GetSubmissionResponse |
| | | | GetSubmissionsRequest |
| | | | GetSubmissionsResponse |
| | | | MeFException |
| | | | SendAcksRequest |
| | | | SendAcksResponse |
| | | | SendSubmissionReceiptsRequest |
| | | | SendSubmissionReceiptsResponse |

1.3.5.1 Get Ack Notification

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a specified state return. The requesting system will provide a GetAckNotificationRequestArgs message in the SOAP body containing the submission ID. If successful, the service returns an empty GetAckNotificationResponse message tag in the SOAP body and a DIME attachment containing the acknowledgement retrieval notification. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.5.1.1 element GetAckNotificationRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetAckNotificationRequestType](#)

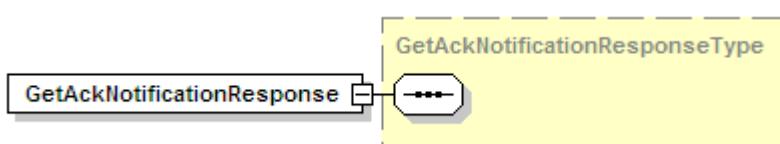
properties content complex

children [SubmissionId](#)

source <xsd:element name="GetAckNotificationRequest" type="msx:GetAckNotificationRequestType"/>

1.3.5.1.2 element GetAckNotificationResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetAckNotificationResponseType](#)

properties content complex

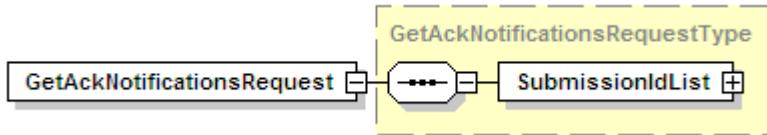
source <xsd:element name="GetAckNotificationResponse" type="msx:GetAckNotificationResponseType"/>

1.3.5.2 Get Ack Notifications

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a specified set of state returns. The requesting system will provide a GetAckNotificationsRequestArgs message in the SOAP body containing a list of submission IDs. If successful, the service returns a GetAckNotificationsResponse message in the SOAP body containing a list of submission errors, if any, and DIME attachments containing the acknowledgement retrieval notification. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.5.2.1 element GetAckNotificationsRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetAckNotificationsRequestType](#)

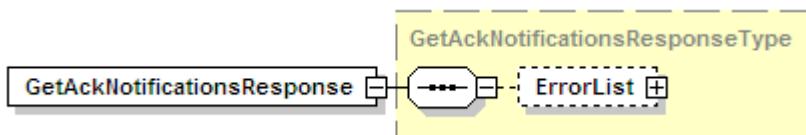
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetAckNotificationsRequest" type="msx:GetAckNotificationsRequestType"/>

1.3.5.2.2 element GetAckNotificationsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetAckNotificationsResponseType](#)

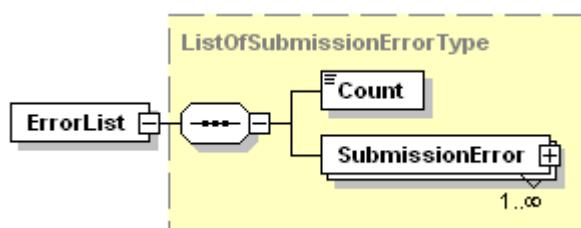
properties content complex

children [ErrorList](#)

source <xsd:element name="GetAckNotificationsResponse" type="msx:GetAckNotificationsResponseType"/>

GetAckNotificationsResponseType/ErrorList

diagram

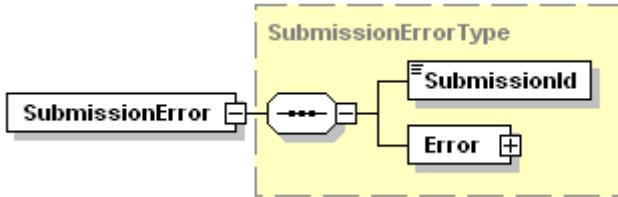


namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [ListOfSubmissionErrorType](#)
 properties isRef 0
 content complex
 children [Count SubmissionError](#)
 source <xsd:element name="ErrorList" type="msx:ListOfSubmissionErrorType" minOccurs="0"/>

ListOfSubmissionErrorType/SubmissionError

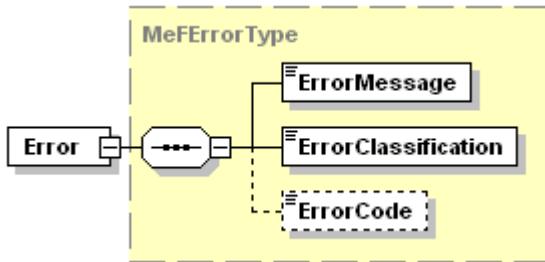
diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
 type [SubmissionErrorType](#)
 properties isRef 0
 content complex
 children [SubmissionId](#) [Error](#)
 source <xsd:element name="SubmissionError" type="SubmissionErrorType" maxOccurs="unbounded"/>

SubmissionErrorType/Error

diagram



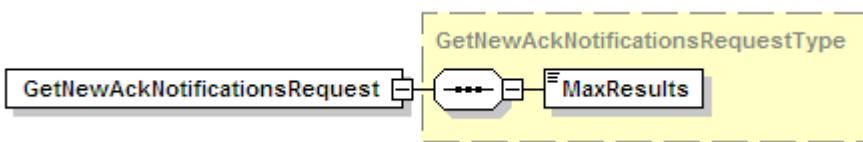
namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>
 type [MeFErrorType](#)
 properties isRef 0
 content complex
 children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)
 source <xsd:element name="Error" type="MeFErrorType"/>

1.3.5.3 Get New Ack Notifications

States will have authorization to programmatically request a Web Service to retrieve information as to whether third-party transmitters have retrieved the acknowledgements submitted by the states for a particular ETIN. The requesting system will provide a GetNewAckNotificationsRequestArgs message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewAckNotificationsResponse message in the SOAP body containing a Boolean flag indicating if more acknowledgement retrieval notifications are available, and DIME attachments containing the acknowledgement retrieval notifications. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.5.3.1 element GetNewAckNotificationsRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetNewAckNotificationsRequestType](#)

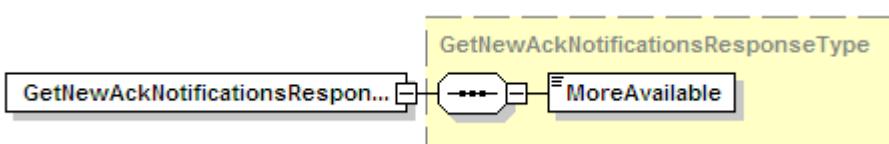
properties content complex

children [MaxResults](#)

source <xsd:element name="GetNewAckNotificationsRequest" type="msx:GetNewAckNotificationsRequestType"/>

1.3.5.3.2 element GetNewAckNotificationsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetNewAckNotificationsResponseType](#)

properties content complex

children [MoreAvailable](#)

source <xsd:element name="GetNewAckNotificationsResponse" type="msx:GetNewAckNotificationsResponseType"/>

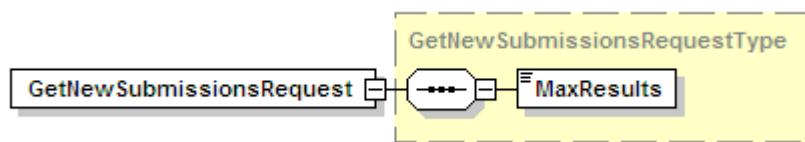
1.3.5.3.3 Get New Submissions

States will have authorization to programmatically request a Web Service to retrieve specified number of submissions for a particular ETIN. The requesting system will provide a GetNewSubmissionsRequestArgs message in the SOAP body containing the maximum number of results that should be returned and the MeFHeader message in the SOAP header containing the ETIN. If successful, the service returns a GetNewSubmissionsResponse message in the SOAP body and DIME attachments containing the submissions. Otherwise, a SOAP error message will be returned to the requesting system.

The GetNewSubmissionsResponse message contains a Boolean flag indicating if more submissions are available and a list of submission IDs, ETINs, timestamps indicating when the submission was received, the federal EIN statuses, timestamps indicating when the submissions were retrieved, and the submission IDs used to submit the returns.

1.3.5.3.4 element GetNewSubmissionsRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [**GetNewSubmissionsRequestType**](#)

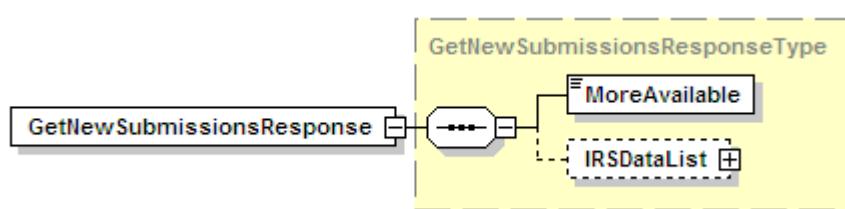
properties content complex

children [**MaxResults**](#)

source <xsd:element name="GetNewSubmissionsRequest" type="msx:GetNewSubmissionsRequestType"/>

1.3.5.3.5 element GetNewSubmissionsResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [**GetNewSubmissionsResponseType**](#)

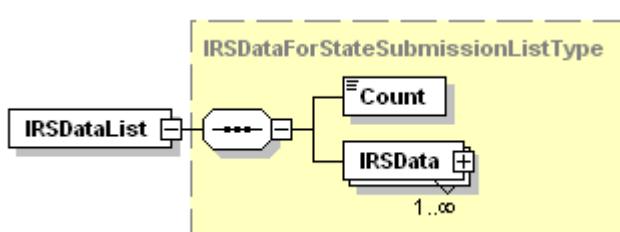
properties content complex

children [**MoreAvailable**](#) [**IRSDATAList**](#)

source <xsd:element name="GetNewSubmissionsResponse" type="msx:GetNewSubmissionsResponseType"/>

GetNewSubmissionsResponseType/IRSDATAList

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [**IRSDATAForStateSubmissionListType**](#)

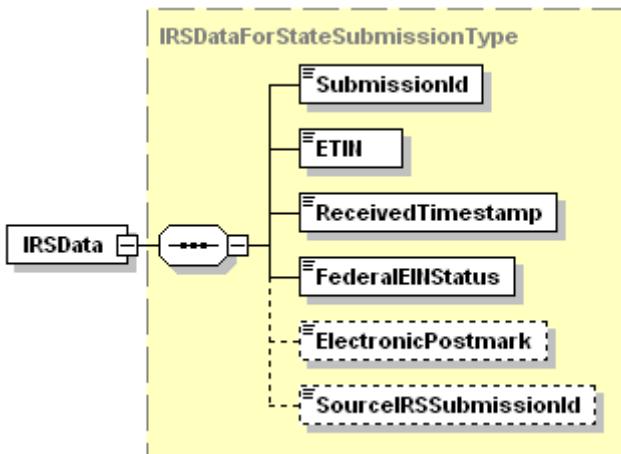
properties isRef 0
content complex

children [**Count**](#) [**IRSDATA**](#)

source <xsd:element name="IRSDATAList" type="msx:IRSDATAForStateSubmissionListType" minOccurs="0"/>

IRSDataForStateSubmissionListType/IRSData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [**IRSDataForStateSubmissionType**](#)

properties
isRef 0
content complex

children [**SubmissionId**](#) [**ETIN**](#) [**ReceivedTimestamp**](#) [**FederalEINStatus**](#) [**ElectronicPostmark**](#) [**SourceIRSSubmissionId**](#)

source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" maxOccurs="unbounded"/>

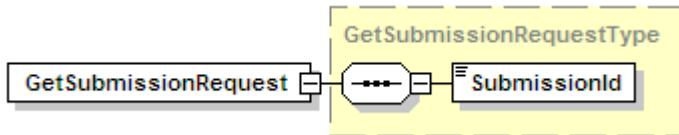
1.3.5.4 Get Submission

States will have authorization to programmatically request a Web Service to retrieve a submission for a specified submission ID. The requesting system will provide a GetSubmissionRequestArgs message in the SOAP body containing the submission ID. If successful, the service returns a GetSubmissionResponse message in the SOAP body and a DIME attachment containing the submission. Otherwise, a SOAP error message will be returned to the requesting system.

The GetSubmissionResponse message contains the submission ID, ETIN, timestamp indicating when the submission was received, the federal EIN status, timestamp indicating when the submission was retrieved, and the submission ID used to submit the returns.

1.3.5.4.1 element GetSubmissionRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetSubmissionRequestType](#)

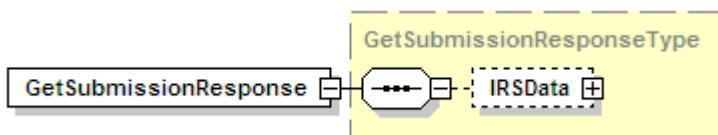
properties content complex

children [SubmissionId](#)

source <xsd:element name="GetSubmissionRequest" type="msx:GetSubmissionRequestType"/>

1.3.5.4.2 element GetSubmissionResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [GetSubmissionResponseType](#)

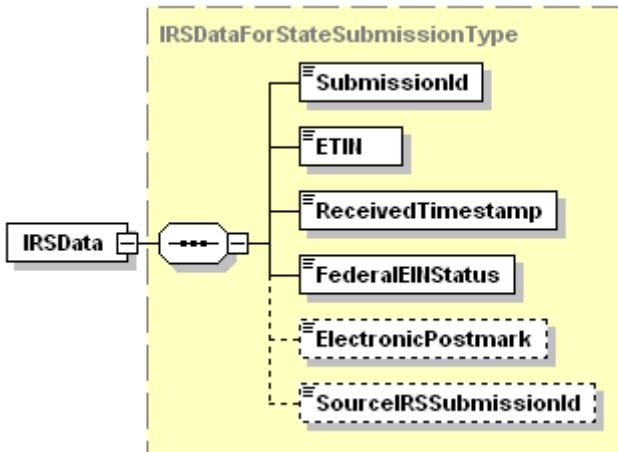
properties content complex

children [IRSData](#)

source <xsd:element name="GetSubmissionResponse" type="msx:GetSubmissionResponseType"/>

GetSubmissionResponseType/IRSData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [IRSDataForStateSubmissionType](#)

properties
isRef 0
content complex

children [SubmissionId](#) [ETIN](#) [ReceivedTimestamp](#) [FederalEINStatus](#) [ElectronicPostmark](#) [SourceIRSSubmissionId](#)

source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" minOccurs="0"/>

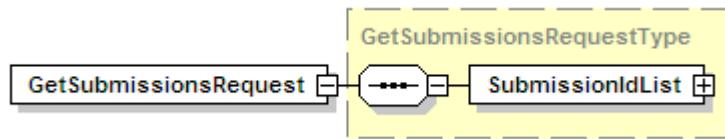
1.3.5.5 Get Submissions

States will have authorization to programmatically request a Web Service to retrieve submissions for a specified list of submission IDs. The requesting system will provide a GetSubmissionsRequestArgs message in the SOAP body containing the list of submission IDs. If successful, the service returns a GetSubmissionsResponse message in the SOAP body and DIME attachments containing the submissions. Otherwise, a SOAP error message will be returned to the requesting system.

The GetSubmissionsResponse message contains a list of submission IDs, ETINs, timestamps indicating when the submission was received, the federal EIN statuses, timestamps indicating when the submissions were retrieved, and the submission IDs used to submit the returns and a list of submission errors, if any.

1.3.5.5.1 element GetSubmissionsRequest

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd

type [GetSubmissionsRequestType](#)

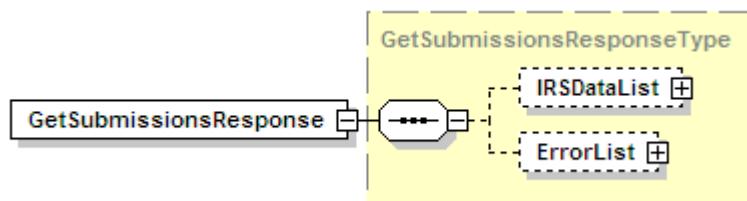
properties content complex

children [SubmissionIdList](#)

source <xsd:element name="GetSubmissionsRequest" type="msx:GetSubmissionsRequestType"/>

1.3.5.5.2 element GetSubmissionsResponse

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd

type [GetSubmissionsResponseType](#)

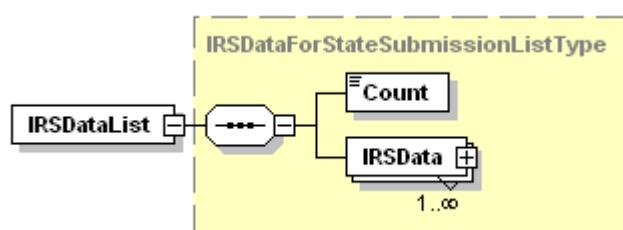
properties content complex

children [IRSDATAList](#) [ErrorList](#)

source <xsd:element name="GetSubmissionsResponse" type="msx:GetSubmissionsResponseType"/>

GetSubmissionsResponseType/IRSDATAList

diagram



namespace http://www.irs.gov/a2a/mef/MeFStateService.xsd

type [IRSDATAForStateSubmissionListType](#)

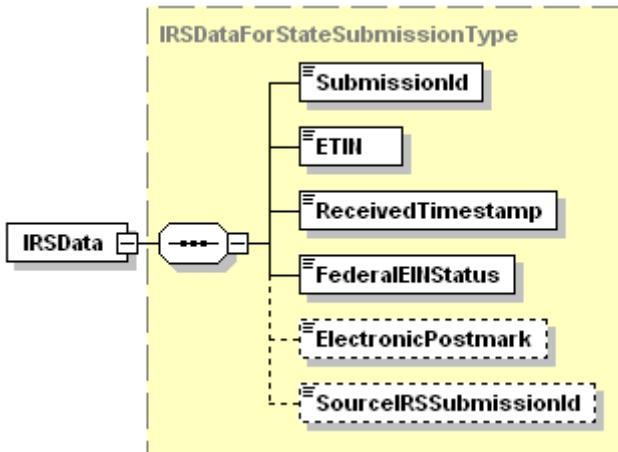
properties isRef 0
content complex

children [Count](#) [IRSDATA](#)

source <xsd:element name="IRSDATAList" type="msx:IRSDATAForStateSubmissionListType" minOccurs="0"/>

IRSDataForStateSubmissionListType/IRSData

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [IRSDataForStateSubmissionType](#)

properties
isRef 0
content complex

children [SubmissionId](#) [ETIN](#) [ReceivedTimestamp](#) [FederalEINStatus](#) [ElectronicPostmark](#) [SourceIRSSubmissionId](#)

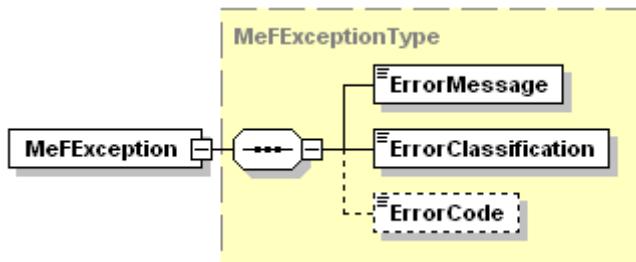
source <xsd:element name="IRSData" type="msx:IRSDataForStateSubmissionType" maxOccurs="unbounded"/>

1.3.5.6 MeF Exception

When errors occur processing a service request a SOAP fault response is returned containing a MeFException message within the SOAP fault detail tag.

1.3.5.6.1 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

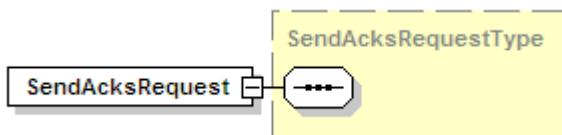
source <xsd:element name="MeFException" type="msx:MeFExceptionType"/>

1.3.5.7 Send Acks

States will have authorization to programmatically request a Web Service to acknowledge the processing of state returns. The requesting system will provide an empty SendAcksRequestArgs tag in the SOAP body and DIME attachments containing the acknowledgements. If successful, the service returns a SendAcksResponse message in the SOAP body indicating the number of acknowledgements received. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.5.7.1 element SendAcksRequest

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

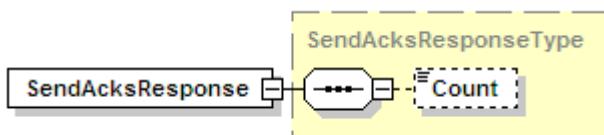
type [SendAcksResponseType](#)

properties content complex

source <xsd:element name="SendAcksRequest" type="msx:SendAcksResponseType"/>

1.3.5.7.2 element SendAcksResponse

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd>

type [SendAcksResponseType](#)

properties content complex

children [Count](#)

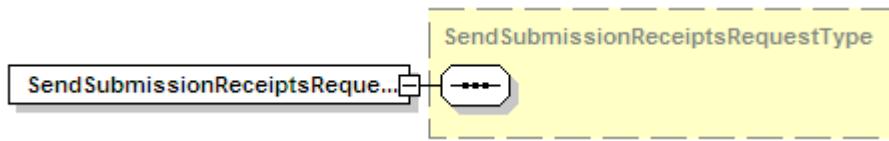
source <xsd:element name="SendAcksResponse" type="msx:SendAcksResponseType"/>

1.3.5.8 Send Submission Receipts

States will have authorization to programmatically request a Web Service to indicate that the specified state returns have been successfully received by the state's application. The requesting system will provide an empty SendSubmissionReceiptsRequestArgs tag in the SOAP body and DIME attachments containing the receipts for the state returns. If successful, the service returns a SendSubmissionReceiptsResponse message in the SOAP body indicating the number of receipts received. Otherwise, a SOAP error message will be returned to the requesting system.

1.3.5.8.1 element SendSubmissionReceiptsRequest

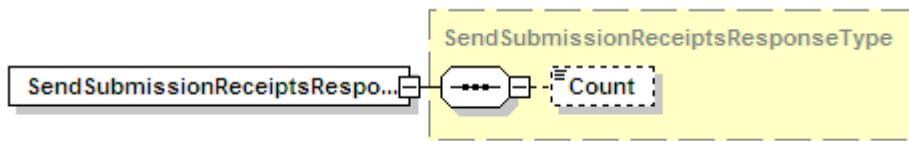
diagram



| | |
|------------|--|
| namespace | http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd |
| type | SendSubmissionReceiptsRequestType |
| properties | content complex |
| source | <xsd:element name="SendSubmissionReceiptsRequest" type="msx:SendSubmissionReceiptsRequestType"/> |

1.3.5.8.2 element SendSubmissionReceiptsResponse

diagram



| | |
|------------|--|
| namespace | http://www.irs.gov/a2a/mef/MeFStateServiceWse.xsd |
| type | SendSubmissionReceiptsResponseType |
| properties | content complex |
| children | Count |
| source | <xsd:element name="SendSubmissionReceiptsResponse" type="msx:SendSubmissionReceiptsResponseType"/> |

1.4 Error Handling and Exception Reporting

Countermeasures to prevent internal implementation details from being revealed to the Third Party or State applications are:

- Use exception handling throughout application's code
- Handle and log exceptions that are allowed to propagate to the application boundary
- Return generic, harmless error messages to the external client

1.4.1 XML Gateway Exceptions

The XML Gateway shall collect all the error exceptions and forward the exception data to the URL published on the SOAP WebSphere Application Server over HTTP.

The error messages will be processed, transformed and logged to the appropriate data store. (i.e. Business Object repository, Log File Collector, ITAMS)

The XML Gateway device will classify the error messages into two categories. The first category of errors will be reported real time. The second category of errors will be reported on a batch basis.

1.4.2 Faults Response

Fault messages are correlated as replies using the [relationship] property. The [action] property below designates WS-Addressing fault messages

<http://schemas.xmlSOAP.org/ws/2004/08/addressing/fault>

The WS-Addressing definitions of faults use the following properties:

[Subcode] The fault subcode.

[Reason] The English language reason element.

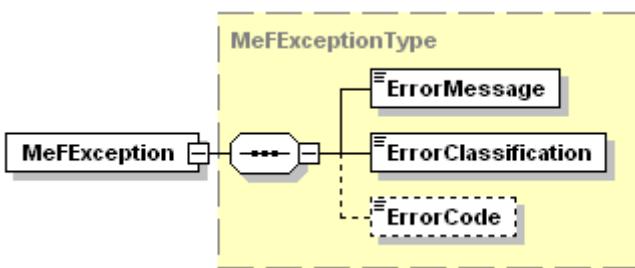
1.4.2.1 MeF Fault

When faults (or errors) occur while processing a MSI service request, the client process is notified via a SOAP fault response containing a MeFException message within the SOAP fault detail tag. This interface is defined as a MeFFault message with the only element being the complex type MeFException as defined below.

| MeFFaultMessage | |
|------------------------|---|
| parts | MeFFault |
| | element mef:MeFException |
| used by | PortType ChangePassword in Operation ChangePassword |
| | PortType EtinRetrieval in Operation EtinRetrieval |
| | PortType EtinStatus in Operation EtinStatus |
| | PortType GetStateParticipantsList in Operation GetStateParticipantsList |
| | PortType InitialLogin in Operation InitialLogin |
| | PortType Logout in Operation Logout |
| | PortType Login in Operation Login |
| source | <wsdl:message name="MeFFaultMessage"> <wsdl:part name="MeFFault" element="mef:MeFException"/> </wsdl:message> |

1.4.2.1.1 element MeFException

diagram



namespace <http://www.irs.gov/a2a/mef/MeFStateService.xsd>

type [MeFExceptionType](#)

properties content complex

children [ErrorMessage](#) [ErrorClassification](#) [ErrorCode](#)

source <xsd:element name="MeFException" type="msx:MeFExceptionType"/>

An example of a SOAP fault for a Logout request when not logged in is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<e:Envelope .....
  <e:Body>
    <e:Fault>
      <faultcode>e:Server</faultcode>
      <faultstring>class MeFExceptionType:Not logged in</faultstring>
      <detail>
        <wn0:MeFException i:type="wn0:MeFExceptionType">
          <ErrorMessage i:type="d:string">Not logged in</ErrorMessage>
          <ErrorClassification i:type="wn0:ErrorClassificationType">
            SECURITY_ERROR
          </ErrorClassification>
          <ErrorCode i:type="d:string">1111</ErrorCode>
        </wn0:MeFException>
      </detail>
    </e:Fault>
  </e:Body>
</e:Envelope>
```

1.4.2.2 MeF Exception

When faults (or errors) occur while processing a Third Party transmitter or State service request, the client process is notified via a SOAP fault response containing a MeFException message within the SOAP fault detail tag. This interface is defined as a MeFException with the only element being the complex type MeFException as defined below.

MeFException for Third Party transmitter services

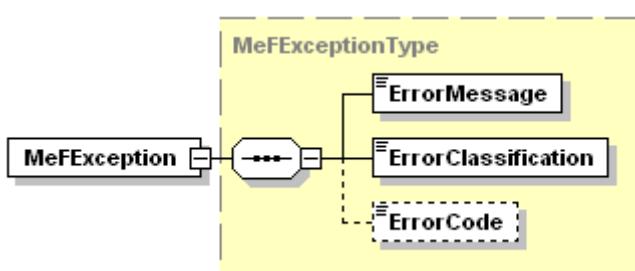
| | |
|---------|---|
| parts | MeFException |
| | element mtx:MeFException |
| used by | PortType SendSubmissions in Operation SendSubmissions PortType GetNewAcks in Operation GetNewAcks PortType GetAcks in Operation GetAcks PortType GetAck in Operation GetAck PortType GetNewSubmissionsStatus in Operation GetNewSubmissionsStatus PortType GetSubmissionsStatus in Operation GetSubmissionsStatus PortType GetSubmissionStatus in Operation GetSubmissionStatus |
| source | <pre><wsdl:message name="MeFException"> <wsdl:part name="MeFException" element="mtx:MeFException"/> </wsdl:message></pre> |

MeFException for State services

| | |
|---------|--|
| parts | MeFException |
| | element msx:MeFException |
| used by | PortType GetNewSubmissions in Operation GetNewSubmissions PortType GetSubmissions in Operation GetSubmissions PortType GetSubmission in Operation GetSubmission PortType SendSubmissionReceipts in Operation SendSubmissionReceipts PortType SendAcks in Operation SendAcks PortType GetNewAckNotifications in Operation GetNewAckNotifications PortType GetAckNotifications in Operation GetAckNotifications PortType GetAckNotification in Operation GetAckNotification |
| source | <pre><wsdl:message name="MeFException"> <wsdl:part name="MeFException" element="msx:MeFException"/> </wsdl:message></pre> |

1.4.2.2.1 element MeFException

diagram



| | |
|------------|--|
| namespace | http://www.irs.gov/a2a/mef/MeFStateService.xsd |
| type | MeFExceptionType |
| properties | content complex |
| children | ErrorMessage ErrorClassification ErrorCode |
| source | <pre><xsd:element name="MeFException" type="msx:MeFExceptionType"/></pre> |

An example of a SOAP fault for a GetAck request with an invalid Submission ID is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<e:Envelope .....
  <e:Body>
    <e:Fault>
      <faultcode>e:Server</faultcode>
      <faultstring>class MeFExceptionType: Invalid SubmissionId
      </faultstring>
      <detail>
        <wn0:MeFException i:type="wn0:MeFExceptionType">
          <ErrorMessage i:type="d:string">Invalid SubmissionId</ErrorMessage>
          <ErrorClassification i:type="wn0:ErrorClassificationType">
            REQUEST_ERROR
          </ErrorClassification>
          <ErrorCode i:type="d:string">2005</ErrorCode>
        </wn0:MeFException>
      </detail>
    </e:Fault>
  </e:Body>
</e:Envelope>
```

Section 2. Data Mapping

The web services provided by the MeF system are described in Web Service Definition Language (WSDL) in this section. For a copy of the WSDL, send an email to 1120@irs.gov.